


Curriculum Vitae

Dr Manmath Kumar Bhuyan

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 : 8637273243, 9437931445

PROFESSIONAL QUALIFICATION & WORK EXPERIENCE

- Organization:** BIET, BARAPADA
Job Title : Prof, HOD, Computer Sc & Engg Dept
Duration : 8 Yr
From/To : 5th Nov 2018 to till date
- Organization:** BIET, BARAPADA
Job Title : Asst Prof, HOD, Computer Sc & Engg Dept
Duration : 8 Yrs plus
From/To : 1st May 2010 to 4th Nov 2018
- Organization:** BIET, BARAPADA
Job Title : Sr Lecturer, Computer Sc & Engg Dept
Duration : 6 yrs plus
From/To : Jan 22nd 2004 to 30th April 2010
- Organization:** QUARK MEDIA HOUSE (Ind) Pvt Ltd, Chandigarh
Job Title : Software Engineer
Duration : One year Plus
From/To : Jun 3rd 2002 to 18th Nov 2003
- Organization:** R-Systems International Ltd, NOIDA
Job Title : Software Engineer
Duration : One year 6 Month Plus
From/To : 17th Nov 2000 to 23rd May 2002
- Organization:** masSoft India, NOIDA
Job Title : Software Engineer
Duration : One year four Month
From/To : Jan 1999 to Nov 2000

ACADEMIC DISTINCTION

- **University Topper and Gold medalist from NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH, WBUT, Kolkata in M. Tech 2009.** 1st in order of merit.
- **Subject Handle :**
 - **B Tech Level:** Software Engineering, OS, Software Project Management, Software Testing, Soft Computing, IOT, OOPS etc.
 - **M Tech Level:** Software Engineering, OS, Software Project Management, Software Testing, Soft Computing etc.
- **Ph D Thesis Title:** “Prediction of Software Reliability using Computational Intelligence”
- **M. Tech Thesis Title :** “Test Case Generation from UML Sequence and State-Chat Diagrams”

ADMINISTRATIVE RESPONSIBILITY HELD SO FAR

- Remain **HOD** of Computer Sc Engineering & IT department in BIET since 2010 till date.
- **Deputy Centre Superintendent** for B Tech /MBA Odd semester Examination 2018-19.
- **Centre Coordinator** for e-Evaluation for Odd, Even Semester 2017-18, Even Sem, Odd Semester 2018-19 and Even Semester 2018-19 for **BPUT**.
- Continuing as Dean Student well fair in BIET.
- **Head** of “STATUTORY COMMITTEE” working for approval and accreditation process of AICTE, BPUT, DTET, SCTEVT, SDTE, etc.
- Working as **Head** of Central Computer Centre in-charge for 4yrs in BIET.

SKILL HIGHLIGHT

Total Experience	4 plus Years (industry) + 22 plus Years (teaching) cont...
Specialization	Software Engineering, Operating System, Soft Computing, IOT
Languages	Python, C, C++, FOTRAN, COBOL
Programming Tools	VC++ (5.0/6.0), MFC, DAO, ODBC, DLL, CORBA Windows SDK Programming. SQL, PLSQL, ORACLE 8i, Multithreaded Programming, WinSock, .NET
Operating Systems	Windows-95/98 Windows NT 4.0/5.0, Windows NT -2000, Windows 7,8,10 MACHINTOSH OS 7.0/10.X,

RESEARCH REVIEWER / EXPERT/EXTERNAL EXAMINER

1. As reviewer for ELSEVIER Journals Paper, Title: “*Software Reliability Prediction Using a Deep Learning Model based on the RNN Encoder–Decoder*”.
2. *Improving software reliability prediction using RELANFIS with intelligent parameters selection, IEEE Transactions on Neural Networks and Learning Systems*
3. *Guest Speaker in Software Engineering at BHADRAK ENGG SHOOOL of TECHNOLOGY.*
4. *Speaker in National Level Seminar on “Software Reliability”*
5. *Reviewer for ICICT 2014 (International Conference on Information and Communication Technologies) Title : “Design Of Software Fault Prediction Model Using BR Technique”*
6. *Reviewer for ICMIB2020 (International Conference on Machine Learning, Internet of Things and Big Data) Title: “An Earthquake Prediction System for Bangladesh using Deep Long Short-term Memory Architecture”.*
7. *Reviewer for ICMIB2020 (International Conference on Machine Learning, Internet of Things and Big Data) Title: “A Novel Approach for Identifying Social Media Posts Indicative of Depression”.*
8. *Reviewer for ICMIB2020 (International Conference on Machine Learning, Internet of Things and Big Data) Title: “A Novel Approach for Identifying Social Media Posts Indicative of Depression”.*
9. *Reviewer for ICMIB2020 (International Conference on Machine Learning, Internet of Things and Big Data) Title: “A Circumstantial Methodological Analysis of Recent Studies on NLP-driven Test Automation Approaches”.*

RESEARCH ACTIVITY

Sl.

International Journals

No.

1. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, A Survey of Computational Intelligence Approaches for Software Reliability Prediction, **ACM SIGSOFT Software Engineering Notes**, Vol. 39, Number. 2, Pages 1-10, March 2014. ACM Sigsoft.
2. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, Sumit Kar, An Empirical

Analysis of Software Reliability Prediction Through Reliability Growth Model using Computational Intelligence, In Proc. International Conference on Computational Intelligence in Data Mining: Smart Innovation, **SPRINGER** (ICCIDM), Pages 513-524, December-2014.

3. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, SrinivasSethi, Software Reliability Assessment using Neural Networks of Computational Intelligence Based on Software Failure Data, Baltic Journal of Modern Computing (BJMC), Pages 669-690, Vol. 4 Number. 4, 2016.
4. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, An Effective Approach to Software Reliability Prediction using Computational Intelligence through Reliability Growth Model with Consideration of Failure data , In International Association of Engineers, International Journals of Computer Science (IJCS).
5. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, Measures for Predicting Software Reliability using Time Recurrent Neural Networks with Back-propagation, **ACM SIGSOFT** Software Engineering Notes, Vol. 40, Number. 5, Pages 1-8, September 2015.
6. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, Prediction Strategy for Software Reliability Based on Recurrent Neural Network, Computational Intelligence in Data Mining Volume 2, Proc. of the International Conference on Computational Intelligence in Data Mining, **SPRINGER**, India, Pages 295-301, 56 December 2015.
7. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, Enhancing Reliability Modelling of Software using Fuzzy Min-Max Rule and Recurrent Neural Network Approach, National Workshop on Recent Trend in Software Testing (RTST) , NIT, Rourkela, India, May 2015.
8. **Manmath Kumar Bhuyan**, Durga Prasad Mohapatra, Srinivas Sethi, Software Reliability Prediction using Fuzzy Min-Max Algorithm and Recurrent Neural Network Approach. International Journal of Electrical and Computer Engineering (IJECE), Vol.6, Number.4, pp. 1929-1938, August 2016, Institute of Advanced Engineering and Science (IAES).
9. Sumit Kar, Srinivas Sethi, **Manmath Kumar Bhuyan**, Security Challenges in Cognitive Radio Network and Defending against Byzantine Attack: A Survey. Vol 17, No 2, pp.120 - 146 , 2016, International Journal of Communication Networks and Distributed Systems. Inderscience.

**RESEARCH PAPERS PRESENTED IN INTERNATIONAL CONFERENCE/
SEMINAR**

<i>Sl. No.</i>	<i>No of Conference/ Seminar</i>
1	Theme Meeting on Fuzzy and Interval Based Uncertainty Modelling (<i>FIUM-2013</i>). NIT, Rourkela, 18 th – 20 th July 2013.
2	Manmath Kumar Bhuyan , Durga Prasad Mohapatra, Srinivas Sethi, Sumit Kar, An Empirical Analysis of Software Reliability Prediction Through Reliability Growth Model using Computational Intelligence, In Proc. International Conference on Computational Intelligence in Data Mining: Smart Innovation, SPRINGER (ICCIDM), Pages 513-524, December-2014.
3	Enhancing Reliability Modelling of Software using Fuzzy Min-Max Rule and Recurrent Neural Network, 11 th – 13 th May 2015 8 th National Workshop on (RTST) NIT, Rourkela
4	Manmath Kumar Bhuyan , Durga Prasad Mohapatra, Srinivas Sethi, Prediction Strategy for Software Reliability Based on Recurrent Neural Network, Computational Intelligence in Data Mining Volume 2, Proc. of the International Conference on Computational Intelligence in Data Mining, SPRINGER , India, Pages 295-301, 56 December 2015.
5	6th National Workshop on “Recent Trend in Software Testing” (RTST-2013) 27 th – 29 th May 2013. NIT, Rourkela

RESEARCH GUIDANCE:

Ph. D.- 2 Continuing

Sl No	Name	Univeristy	Area
1.	Mr Sanjit Kr Barik, Asst Prof GCE, BPUT, Keunjar	GIET University, Gunupur	Software Engineering
2	Mr Ansuman Mishra, Sr Lect, BIET, BPUT, Barapada	BPUT, Odisha	Software Engineering
3	Mr Ramesh Jana, Sr Lect BCET, NLS	BPUT	S/W Engg & SC

M. Tech: 55 Completed, 2 Continuing

Sl No	Name	Topic	Year
1	Debabrata Mohapatra	Selfish Node Detection In Mobile Ad Hoc Network	2015
2	Dharmendra Rout	Intrusion Detection System For Wireless Sensor Network	2015
3	Md Farat Alam Khan	A Resource Monitoring Scheme For Web Applications	2015
4	Rashmi Rekha Das	A Study On Software Reliability Prediction Using Neural Network	2015
5	Nilamadhaba Mishra	Big Data Processing : Big Challenges And Opportunity	2016
6	Suprava Nandi	Software Testing And Test Case Design Adopted In It Corporate World	2016
7	Manas Ranjan Mohanty	Study On Models For Smart Surveillances Through Multi Camera Network	2016
8	Snigdha Rani Mohanty	Test Case Generation And Optimization Of Object Oriented Software Using Um Behavioural Model.	2016

9	Gour Jyoti Mishra	Communication And Coordination Among Actor Nodes In Wireless Sensor Network	2016
10	Sumita Das	Evaluation Software Understandability Using Software Metrics	2016
11	Mahi Ranjan Mohanty	Study: Intrusion Detection System For Wireless Sensor Network	2016
12	Debasish Nayak	Application Of Rough Sets In Data Mining	2016
13	Bidhu Bhushana Barik	Security Auding Process For Local Area Network	2017
14	Arun Kr Tripathy	Application Of Digital Fingerprinting Duplicate Image Detection	2017
15	Debasmita Nath	A Combine Approach For Identifying Crosscutting In An Object Oriented System	2017
16	Aurobinda Pradhan	Smart And Energy Efficient Power Saving System Based On Wireless Sensor Network	2017
17	Vijaylaxmi Swain	Wireless Sensor Networking For Device Monitoring	2017
18	Rashmi Prava Panda	A Modified Approach To Add And Optimize The Addition Result In DBNS	2017
19	Sanghamitra Mohanty	Application Of Rough Sets In Data Mining	2017
20	Anita Bainsia	Opinion Mining Of Online Customer Reviews	2017
21	Kaniz Fatma	Real Time Event Management And Coordinating System	2017
22	Snigha Rani Jena	Graphical User Authentication	2017
23	Rahul	Review Techniques For Online Review Spam Techniques	2018
24	Subhashree Nath	An Energy Efficient Multi Level Clustering Protocol In Wireless Sensor Network	2018
25	Bulbul Priyadashini Palai	Logical Link Control And Adaptation Protocol In Bluetooth Networking	2018
26	Taranum Ara	Traffic Analysis Of VANET	2018
27	Sayantini Nayak	Intrusion Detection Analysis And Its Impact On Wireless Sensor Network	2019
28	Soumya Mohanty	Optimization Of Energy Efficient Cloud Data And Its Impact	2019
29	BrahmaKumari Monalisa Ojha	Software Dependability Calculation using Neural Network	2020
30	Putun Hansda	Yet to decide	2021

SHORT TERM COURSE, WORKSHOP and TRAINING ATTENDED	
Sl No	
1	Training on Python Programming , Revert Technology, Finland Labs (A Unit of Revert Technology Pvt. Ltd., New Delhi), 25th- 29th October 2021
2	Faculty Development Program On Internet of Things (IOT) Using Amazon AWS held during 09th - 20th August 2021
3	Workshop on “Dot Net Technology” at Infosys , Bhubaneswar from 24 th -26 th August 2005.
4	Training on “AIX 5l Basics “ from 11 th -14 th Sept 2006 at IBM, Bangalore
5	“RECENT TREND IN OBJECT ORIENTED SOFTWARE DEVELOPMENT” short term course at NIT, Rourkela From 25 th -29 th June 2007.
6	MHRD-AICTE sponsored staff development programme on ”Advance Software Techniques and Their Application” program from 13 th –26 th October 2008 at NIT Rourkela .
7	AICTE -sponsored “Selected Topics in Software Engineering” from 23 rd to 28 th Nov, 2008 at IIT, Kharagpur
8	Recent Trend in Software Testing (RTST) , 27 th -29 th May 2013, National Workshop, NIT, Rourkela
9	DST sponsored SERC School on “Advance Software Engineering Techniques and Their Application” , 4 th – 8 th June 2012
10	Mission 10X , 12 th March 2012-16 th March 2014 , WIPRO
11	Train the Trainer , 24 th – 26 th August 2005, BBSR. Infosys .

PROJECT RESEARCH/ EXPERIENCE

Research Project : **“Object Oriented Test case generation from UML diagram”**
Organization : **NITTTR, WBUT, Kolkata**

Organization : **QUARK MEDIA HOUSE.**
Project Name/Title : **QUARK DMS XTENSIONS**
Duration : **Jun 3rd 2002 to Nov 2003**
Environment : **Windows NT 2000, C++,VC++, MFC, and CORBA,ORACLE 8i**
Hardware : **Pentium-III/IV**
Role : **I am in Client side developer for Quark DMS Xtensions for Windows and MAC OS 7.0/10.0. Responsible for GUI development and CORBA IDL’S for Client as well as server.**

Description : **Quark Digital Media Systems(QuarkDMS) is a central repository for all your digital publishing-related assets, such as text files, graphics, photograph, movies, sound files and related files types.**

Regardless of the size and geographic distribution of your organization, your entire staff can access QuarkDMS over your local network or the Internet to quickly find and

download the digital assets they need. A layout artist in San Francisco, for example can access a bar graph create and published by her associates working in London – Without eve Leaving her desk, picking up the phone, or requiring the help of an archivist.

Organization : **R-Systems International Ltd.**
Project Name : **ACP (American College Of Physician)**
Client : **TMAR**
Development Env : **Hardware**
: **Windows NT with latest Service pack.**
Software
: **Oracle Connectivity software(SQL *Net),Oracle Report Ver 3.0**
VC++(6.0),C++,MFC, Centura, ORACLE 8i,SQL,PLSQL,Visual Source Safe
Client, SQL Server 7.0 Desktop client

Duration : **1 year plus**

Role : As a module leader I am involved in the coding and customization of VC processes, Code Review and Unit Testing.

Description : TIMMS is a comprehensive suite of applications for organizations such as professional societies, trade associations and labor unions. The TIMMS system supports its customer with a reliable, responsive and complete database system. We can think TIMSS like an ERP package, for each customer it has to be customizing according to their needs. We were involved in the customization process.

Organization : **R-Systems International Ltd.**
Project Name : **ASQ(American Society For Quality)**

Client : **TMAR**

Platform : **VC++ (6.0),C++,MFC, Centura, ORACLE 8i,SQL,PLSQL, Windows NT 4.0**

Duration : **3 Months**

Role: I am involved in the coding and customization of VC++ processes, Code Review and Unit Testing.

Description : I am involved in five projects namely CRT120, MBR660, ORD600, MTG660.In all projects front end is Synchora and back end is oracle And the Processor is VC++(5.0),C++,MFC.I have coded entirely all five VC process .Data base connection is ODBC between VC and ORACLE 8i.

Organization : **masSoftIndia, Noida.**

Project Name : **PDF to XML/TSL Plug -in**

Client : **A product of Bitstream Inc. U.S.A**

Platform : **VC++ (5.0), C++, MFC, Windows NT 4.0**

Duration : **July 1999 to Nov 16th 2000**

Role : **involved in coding and testing**

PERSONAL DETAILS

Father's Name : Late Shree Srinath Bhuyan, ex Govt Employee
Mother's Name : Late Sushila Bhuyan, Housewife
Date of Birth : 20th April 1973
Permanent Address : Nahanjara, Alalpur, Jaleswar, Balasore, Odsha-756032

Qualification : **Ph. D** in Computer Sc & Engineering from **Utkal University**, Bhubaneswar, in association with **IGIT**, Sarang under the guidance of **Prof(Dr) D. P. Mohapatra**, NIT, Rourkela and **Prof(Dr) Srinivas Sethi**, **IGIT**, Sarang.
M. Tech. in Computer Science Engineering from **National Institute of Technical Teachers & Research (NITTT&R)**, WBUT, Kolkata, established by the Dept. of Education, MHRD, Govt. of India having **DGPA 8.9 (2009/ University Gold)**.

Nationality : Indian
Sex : Male
Marital Status : Married
Spouse : M. Sc.& M. Ed.Sr SES Teacher (Science) HM Govt High School, Bhadrak
Son : MBBS in AIIMS, Cont...
Daughter : +2 Science Cont...
Language Proficiency : English, Hindi, Odiya, Bengali
Place : Jaleswar, Baleswar, Odisha

DECLARATION: I hereby declare that the information given in this application is true and correct to the best of my knowledge and belief.

Place: Bhadrak
Date: 06.11.2021



Dr M. K. Bhuyan