

# VED PRAKASH

✉ hello@vedp.in    LinkedIn    GitHub    Portfolio

## Education

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**National Institute of Technology, Silchar**

**Aug 2023 – May 2025**

*Master of Science in Mathematics*

*CGPA: 7.86/10.0*

- **Relevant Coursework:** Linear Algebra, Probability & Statistics, Calculus, Discrete Mathematics, Optimization Techniques, Numerical Analysis, Computer Programming and Data Structures
- **Dissertation/Thesis:** During my MSc at NIT Silchar, I completed a project titled “**A Study on Edge Wave Propagation in an Incompressible Anisotropic Initially Stressed Plate of Finite Thickness.**”

## Technical Skills

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**Programming:** Python, SQL, MATLAB, HTML, CSS, JS, C/C++, LaTeX

**Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, SciPy, Plotly, Beautiful Soup, Scrapy, XGBoost, LightGBM, OpenCV, NLTK, SpaCy.

**Frameworks:** TensorFlow, PyTorch, Keras, LangChain, Selenium, Flask, FastAPI, Tailwind CSS, Bootstrap.

**ML:** Regression, Classification, Clustering, SVM, Neural Networks

**Data Science:** Preprocessing, Feature Engineering, Evaluation, Tuning, Statistical Analysis

**Tools:** Git, GitHub, Docker, Jupyter, PyCharm, VSCode, Streamlit, Gradio

**Cloud & DB:** RENDER, RAILWAY, NEONDB, AWS (ECR, ECS), MySQL, APIs

**Generative AI:** LLMs, NLP, Deep Learning

**Core:** Mathematical Modeling, Inference, Visualization, Problem Solving

## Projects

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**Ishop** | *E-commerce Platform for Interior Products*

**March 2026**

- Developed a full-stack e-commerce website enabling users to purchase interior products online, featuring seamless integration with Razorpay payment gateway for secure transactions.
- Deployed on Render with auto-scaling capabilities to efficiently handle varying traffic loads and ensure optimal performance.
- Implemented CI/CD pipeline using GitHub Actions and integrated essential APIs for enhanced functionality and streamlined deployment workflow.
- **Technologies:** Flask, Bootstrap, SQLAlchemy, NeonDB, Razorpay, Render
- **GitHub:** [github.com/vedlab/ishop](https://github.com/vedlab/ishop)
- **Live Demo:** [ishop.vedp.in](https://ishop.vedp.in)

**Personal Portfolio Website** | *Flask, Tailwind CSS, DaisyUI, BetterStack*

**Feb 2026**

- Designed and developed a modern multi-page personal portfolio website showcasing projects, skills, certificates, and professional experience with technical blog page.
- Responsive UI with Tailwind CSS and DaisyUI components.
- Real-time status monitoring via BetterStack.
- Flask backend with APIs; static content on Netlify, domain via Cloudflare.
- **Live Demo:** [www.vedp.in](https://www.vedp.in)

**AI-Powered Hiring Assistant Chatbot** | *LangChain, LLM, AWS, Docker, Gradio*

**May 2025**

- Built AI chatbot using LLMs to automate recruitment Q&A.
- Deployed solution via AWS ECS using Docker containers.
- Integrated APIs and documented architecture.
- **GitHub:** [github.com/vedlab/Hiring-Assistant-chatbot.git](https://github.com/vedlab/Hiring-Assistant-chatbot.git)
- **Live Demo:** [hrbot.vedp.in](https://hrbot.vedp.in)

**Student Performance Predictor** | *Python, Scikit-learn, Flask* **Feb 2025**

- Developed ML models to predict academic outcomes.
- Performed EDA, preprocessing, feature selection.
- **GitHub:** [github.com/vedlab/student-performance-predictor.git](https://github.com/vedlab/student-performance-predictor.git)
- **Live Demo:** [student.vedp.in](http://student.vedp.in)

**Movie Recommendation Engine** | *Collaborative Filtering, Streamlit* **Aug 2024**

- Built recommendation system using clustering and CF.
- Deployed with user interface in Streamlit.
- **GitHub:** [github.com/vedlab/movie-recommender.git](https://github.com/vedlab/movie-recommender.git)
- **Live Demo:** [movierecommender.vedp.in](http://movierecommender.vedp.in)

## Certifications

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**100 Days of Code™: The Complete Python Pro Bootcamp** | *Udemy* **2026**

- Developed 100+ projects spanning **Data Science** (Pandas, NumPy, Matplotlib), **Flask** full-stack web apps, ML models, and production-grade automation/web scraping pipelines.
- **Cert:** [udemy.com/certificate/UC-3ac1644e-de48-45b5-9aab-67e65e704c81](https://udemy.com/certificate/UC-3ac1644e-de48-45b5-9aab-67e65e704c81)

**Machine Learning Specialization** | *Stanford University (Coursera)* **2025**

- Supervised Machine Learning: Regression and Classification.
- Advanced Learning Algorithms.
- Unsupervised Learning, Recommenders, Reinforcement Learning.
- **Cert:** [coursera.org/verify/specialization/IYE027AY5IDM](https://coursera.org/verify/specialization/IYE027AY5IDM)

**NLP with Classification and Vector Spaces** | *DeepLearning.AI* **2025**

- Text classification with bag-of-words, TF-IDF, word2vec, Naive Bayes; vector space models and cosine similarity for sentiment analysis and document retrieval.
- **Cert:** [coursera.org/verify/BMF86UV77MH0](https://coursera.org/verify/BMF86UV77MH0)

**SQL for Data Science with Python** | *IBM* **2024**

- Advanced SQL queries with JOINS, subqueries, window functions, and aggregations for data analysis and business intelligence.
- **Cert:** [coursera.org/verify/NUPQFDB88THF](https://coursera.org/verify/NUPQFDB88THF)

## Leadership & Achievements

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**Placement Coordinator** **2024 – 2025**

*Training & Placement Cell, NIT Silchar* *Silchar, India*

- Led employer outreach, coordinated training modules aligned with industry demands.

**IIT-JAM 2023:** AIR 1256 among 15,000 candidates **2023**

**JEE Mains 2019:** 89 percentile among 2.2 million candidates **2019**

## Interests

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Analytics • Chess • Research • Traveling • Nutrition • Self-improvement • Technology Trends • Machine Learning Research • Artificial Intelligence • Continuous Learning