PRAGYA MISHRA

Bangalore, Karnataka | P: +91 8088259310 | pragya1205mishra@gmail.com

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY <div align="right">Chennai, TN</div>
Bachelor of Technology <div align="right">Expected May 2025</div>
Major in Computer Science; Specialization in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.48/10
Relevant Coursework: Data Analysis, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, Machine Learning, NLP, Deep Learning, Object-oriented Programming, Machine Vision, DBMS, IoT, Microprocessors and Microcontrollers, Compiler Design, Computer Organization and Architecture.

DELHI PUBLIC SCHOOL, BANGALORE EAST
Class 12th CBSE Boards: 94.2% | Class 10th CBSE Boards: 94.8%

WORK EXPERIENCE

CORIZO EDTECH
Data Science Intern <div align="right">Aug 2023 – Oct 2023</div>
● Developed an AI-powered cardiovascular disease prediction model, improving early diagnosis accuracy by 20%.
● Built a Spotify song genre segmentation system using ML, increasing classification precision by 15%.
● Optimized ML algorithms, demonstrating expertise in AI-driven analytics and predictive modeling.

PROJECTS

Automated System Validation & Performance Testing
● Developed a validation framework for software quality testing using Python & Shell scripting.
● Designed automated test cases to verify system performance, reliability, and security in Windows & Linux environments.
● Implemented emulation and platform-level testing to assess product specifications against competition.

Trade Engine with Risk Assessment
● Developed a full-stack stock trading platform with real-time portfolio tracking.
● Integrated risk assessment algorithms, reducing portfolio losses by 25% through AI-driven investment strategies.

Diabetic Retinopathy Classification
● Implemented Quantum Machine Learning (QML) with ConvNext and Vision Transformers (ViT), achieving 94% accuracy.
● Designed for real-world deployment in ophthalmology clinics to enhance early diagnosis

Windows & Linux Application Debugging
● Investigated software failure points using debugging tools (GDB, WinDbg) in Windows & Linux environments.
● Implemented performance profiling techniques to optimize execution speed and memory usage.

Healthcare Chatbot
● Designed an AI-powered, rule-based chatbot using if/then logic to provide instant responses to FAQs.
● Achieved 90%+ accuracy in providing medical guidance through an interactive, rule-based system.

ACTIVITIES

HEAD, MASTER OF CEREMONY COMMITTEE, VIBRANCE'24
● Hosted VIT Chennai's largest cultural fest (9,000+ attendees), receiving personal commendation from Shreya Ghoshal.
● Managed a team of 30+ members, ensuring seamless execution of events and audience engagement.

CREATIVE HEAD, DRAMATICE CLUB
● Led VIT Chennai's Dramatics Club to win Best Social Club (2023) through strategic direction, event planning, and performances.
● Directed award-winning plays and boosted club revenue by 50% through increased social media engagement.

TECHNICAL SKILLS

Programming: Python, C, C++, Java, SQL, MATLAB, Shell Scripting, **Automation & Tools:** Git, Jenkins, GitHub Actions, CI/CD Pipelines, **Validation & Testing:** Test Automation Frameworks, Software Quality Assurance, Performance Testing, Debugging, **Operating Systems:** Windows, Linux, **ML:** RAG systems, agentic AI, large language models (LLMs), multimodal AI, transformers, self-supervised learning, model interpretability (SHAP, LIME), federated learning, computer vision (CNNs, ViTs), generative AI (GANs, diffusion), MLOps, healthcare AI , **Certifications & Training:** Google Cloud Digital Leader, Google Cloud Computing Foundations, Spoken Tutorial (IIT Bombay) certified in C, C++, SQL, Java and PHP.