Rohith Varma K

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Education

SRM Institute of Science and Technology **Sep 2021 - Jun 2025**
BTech In Information Technology | CGPA: 9.09/10 *Chennai, India*

- Developed and deployed scalable web applications, applying Data Structures, Algorithms, and Object-Oriented Programming (OOP) principles to optimize performance and maintainability.
- Demonstrated strong collaboration and leadership skills by driving Agile development sprints, coordinating with cross-functional teams, and delivering high-impact projects.

Dr. V. G. N. MATRIC.HR.SEC.SCHOOL **Mar 2020 - May 2021**
Higher Secondary Course in Computer Science and Mathematics. | Percentage: 85% *Tiruttani, India*

Technical Skills

- **Languages & Frameworks:** JavaScript (ES6+), TypeScript, Python, SQL
- **Web Development:** HTML5, CSS3, JavaScript, REST APIs, UI/UX Fundamentals
- **Data & Storage:** MySQL, MongoDB, NoSQL design, RDBMS principles
- **DevOps & Cloud:** Docker, GitHub Actions, CI/CD pipelines, Linux/WSL (Ubuntu), Agile/Scrum methodologies
- **Security & Quality:** Implemented secure coding practices and static code analysis for production-grade applications

Professional Experience

Prodigy Infotech **Dec 2024 – April 2025**
Python Development Intern (Remote, Learning-based)

- Built 5+ Python mini-projects and backend features during internship, applying concepts of REST API design, OOP, and file handling in real-world tasks.
- Completed 6 structured Python development modules covering data structures, exception handling, and CRUD operations — simulating production-grade backend logic.
- Automated 5+ repetitive data workflows using Pandas, saving hours of manual effort and reinforcing script-driven problem solving.
- Optimized data-heavy Python scripts by 2x using multiprocessing and I/O profiling techniques, improving runtime efficiency.
- Experimented with scikit-learn to develop a basic classification model with 85%+ accuracy in initial iterations, demonstrating applied ML understanding.
- Pushed 25+ commits with 90% PR approval rate, actively collaborating through GitHub and applying version control best practices.
- Reduced average debug time by 40% via systematic use of Python logging and unit testing, enhancing reliability of backend code.

Projects & Impact

AI-Powered Heart Disease Predictor **Python, PyTorch, Flask, MySQL, REST APIs**

- Built a real-time disease risk dashboard using Flask and MySQL, achieving 84% model accuracy with advanced feature engineering and PyTorch/TensorFlow tuning.
- Engineered API-first architecture for clinical data handling, enabling secure health data flows across frontend/backend layers.
- Scaled web deployment for concurrent users with 71% uptime, demonstrating cloud-readiness and API resilience.
- Reduced prediction latency by 54% through optimized RESTful API design, streamlining patient data processing.
- Implemented deep learning and ensemble methods with diagnostic precision, ensuring HIPAA-compliant data handling.
- Led end-to-end ML model lifecycle under Agile, used Git for version control, and PyTest for test automation.