

Raghav Vashistha

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Objective

Machine Learning-focused developer with experience in building robust ML models, adversarial defense systems, and production-grade web applications, Seeking Machine Learning Engineer roles focused on scalable ML pipelines and backend systems.

Education

B.Tech in Computer Science and Engineering

SRM Institute of Science and Technology, Kattankulathur

2023 – 2027

CGPA: 9.20/10

Technical Skills

- **Languages:** C++, C, Python, JavaScript, TypeScript, SQL, Bash
- **Machine Learning:** NumPy, Pandas, Scikit-Learn, XGBoost, Deep Learning, Neural Networks, PyTorch, Ensemble Methods, TensorFlow, Gaussian Process Regression
- **Core CS:** Data Structures & Algorithms, OS, DBMS, OOP, System Design, Agile/Scrum
- **Web/Backend:** Node.js, Express.js, React.js, REST APIs, JWT Auth, Docker, CI/CD Pipelines
- **Tools:** Git, GitHub Actions, Linux, MySQL, MongoDB, Vercel

Work Experience

Research Intern – Machine Learning for Additive Manufacturing

05/2025 – 07/2025

IIT (BHU) Varanasi, Department of Mechanical Engineering

[Internship Details →](#)

- Designed a Gaussian Process Regression ensemble pipeline achieving **R^2 of 0.993** for material property prediction on a 200-point experimental dataset (laser power, scan speed, hatch spacing).
- Reduced prediction uncertainty by **15%** and MAE by **20%**; built Python-based tools for reproducible model deployment adopted by 5+ researchers.

Leadership & Activities

Web Development Head – SRM Insider

03/2026 – Present

Led onboarding of **20+ developers**, reducing ramp-up time by **30%**.

Mentored 8+ members; improved delivery velocity by **25%** via Agile practices.

Projects

Financial Fraud Detection & Data Poisoning Defense

Private repo (available on request)

- Developed ML models on IEEE-CIS and European card datasets for fraud detection under adversarial settings.
- Simulated label-flipping and feature manipulation attacks; built ensemble defense using PyTorch and TensorFlow.
- Evaluated models using ROC-AUC, precision, recall, and F1-score with Scikit-Learn and XGBoost.

Employment Website (Full-Stack Hiring Platform)

<https://tredence-full-stack-task.vercel.app>

- Built a drag-and-drop workflow automation system serving **50+ users** using React + TypeScript with modular component architecture.
- Designed a DFS-based cycle detection and execution engine achieving **99.5% task success rate**; deployed via Vercel with CI/CD pipeline.

Employment Website (Full-Stack Hiring Platform)

github.com/RaghavV8/Employment-Website

- Built MERN-based hiring platform with JWT authentication, role-based access control (RBAC), and bcrypt-encrypted storage.
- Designed REST APIs with optimized MongoDB queries, achieving **35% faster response times**; responsive UI via TailwindCSS.

Certifications

- RHCSA – Red Hat Certified System Administrator
- Programming in Java – NPTEL
- Introduction to Machine Learning – NPTEL

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