

Pranjal Kumar Shukla

Backend & Machine Learning Developer

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SUMMARY

Backend-focused developer with hands-on experience in **Spring Boot microservices** and **machine learning**. Skilled in building **scalable systems**, optimizing ML models, and delivering reliable backend solutions for **AI-driven products**.

EDUCATION

Vellore Institute of Technology

Bhopal, India

B.Tech in Computer Science & Engineering (AI & ML) – **CGPA: 9.1**

Sep 2023 – Present

- Relevant Coursework: Machine Learning, Data Structures Algorithms, Computer Networks, Database Management.

WORK EXPERIENCE

FOSSEE, IIT Bombay

Remote

Software Developer Intern (Summer Intern)

Feb 2026 – Present

- Contributing to **OpenFOAM GUI** using **Python, Blender, and Linux**, improving simulation workflow usability.
- Automated GUI workflows, reducing manual steps by 60% and improving interaction latency by 35%.

AICTE Edunet (IBM)

Remote

Machine Learning Intern

Jul 2024 – Aug 2024

- Designed and deployed an end-to-end **fake news detection system** on **IBM Cloud** using Scikit-learn, covering data preprocessing, supervised learning, and cloud deployment, achieving **95%+ accuracy** with scalable ML pipelines.

KEY PROJECTS

AgriProject – FarmFlow

May 2025 – Oct 2025

Microservices-based Agriculture Platform

Spring Boot, Docker, Python ML

- Architected a **Spring Boot microservices platform** with **120+ REST APIs**, service discovery, JWT-based security, and **Caffeine caching** for high-performance backend workflows.
- Integrated **Python ML services** (3 models, **95%+ accuracy**) and orchestrated the full stack using **Docker Compose** with **MySQL** persistence.

Kubernetes Monitoring System

Jun 2025 – Aug 2025

Containerized Applications & Observability Platform

Kubernetes, Docker, Grafana

- Provisioned** and managed **multiple containerized applications** on a **Kubernetes cluster** using core primitives including Deployments, Services, Ingress, ConfigMaps, and Secrets.
- Implemented **Horizontal Pod Autoscaling** (up to **300%** scale) and integrated **Prometheus/Grafana** for real-time observability and resource optimization.

Ascraa – AI-Powered Internship Matching Platform (Co-founder)

Nov 2025 – Present

Video Resume Verification & Candidate Ranking System

Spring Boot, OpenCV, MongoDB

- Built an **AI-powered internship matching platform** with video-resume verification, projected to reduce recruiter screening time by **50%**.
- Optimized OpenCV-based inference by reducing feature extraction from **600+ landmarks** to **less than 20 critical signals**, enabling end-to-end video and audio scoring for **60-second submissions within 1 minute**.

TECHNICAL SKILLS

- Backend:** Spring Boot, REST APIs, Microservices, Hibernate, Eureka Cloud
- Languages:** Python, Java, C++, JavaScript, HTML/CSS
- ML & Data Science:** Scikit-learn, Pandas, NumPy, Matplotlib, CNN
- DevOps & Tools:** Docker, Kubernetes, Git, GitHub, GitLab CI/CD, Grafana, AWS (Basics)
- Databases:** MySQL, SQL
- Frontend:** React, Thymeleaf

CERTIFICATIONS

Oracle Certified Professional – Java SE 17 Developer (Nov 2025)

NPTEL Cloud Computing (Top 5%): NPTEL25CS11S1042801742

Oracle Cloud Infrastructure 2025 Gen AI Professional

ACHIEVEMENTS & EXTRACURRICULARS

GATE 2026 Qualified: Strong in core CS (DBMS, OS, DSA).

SIH 2024 – College Finalist: Built ML-based safety system with anomaly detection; selected among 400 teams.

Treasurer – Toastmasters Club: Managed 2.5L fund for 25 members; ensured 100% dues and transparent reporting.