APOORV PANDEY

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EXECUTIVE SUMMARY

Final-year B.Tech in Information Technology with Honors student with strong foundations in Java, Python, SQL, and software engineering. Hands-on experience in full-stack development with ASP.NET Core and React. Actively building expertise in Generative AI, RAG systems, and Machine Learning fundamentals through academic and personal projects. Passionate about developing intelligent, scalable AI solutions.

EDUCATION

- B.Tech (Information Technology (Honors)), PTU— CGPA: 8.28 (Up to 5th Semester/ Current 7th Semester), 2022–2026
- Intermediate (12th), ICSE Board — 89%, 2021
- High School (10th), ICSE Board — 90.6%, 2019

WORK EXPERIENCE

June - 2025 – July - 2025
Innovaneers Technologies
Pvt. Ltd.

Web Development Intern | Innovaneers Technologies (On-Site)
Jun 2025 - Jul 2025

Tech Stack: ASP.NET Core MVC, MySQL, Bootstrap, JavaScript, AJAX

- Built a real-time, role-based loan management system with authentication & authorization (Admin, Marketing, Office, Calling).
- Designed end-to-end lead lifecycle: generation → assignment → KYC upload & verification → approval → commission tracking.
- Implemented document verification with audit logging and auto commission calculation (paid/pending).
- Developed real-time notifications (AJAX) for lead/document events and team-based access control.
- Created analytics dashboard with widgets, charts, smart filters, and export/print options.

TECHNICAL SKILLS

- **Programming Languages:** Python (Core, Django), Java, C#, JavaScript
- **AI/ML Exposure (Basics):** RAG Systems, LLM Integration, Prompt Engineering, Machine Learning Fundamentals (Scikit-learn, Pandas, NumPy)
- **Web Development :** (HTML, CSS, JS), ASP.NET, React framework (basics), Bootstrap
- **Databases & Tools:** SQL, MySQL, Git, GitHub, Docker, XAMPP
- **Concepts:** Object-Oriented Programming, Data Structures, Software Testing

PROJECTS

1. NyayAI – AI Legal Assistant with RAG & Multi-LLM Integration [*Academic Project*]
Tech Stack: Python, Django, RAG, Vector Databases, Groq/Gemini APIs, Prompt Engineering
- Built RAG architecture for precise IPC/CrPC section retrieval using vector search
- Integrated Groq, Gemini & Ollama LLMs with intelligent routing & contextual prompts
- Developed document analysis for legal summarization & key point extraction
- Implemented role-based access, real-time chat, TTS & modular hybrid response system

2.Autonomous DevSecOps Pipeline with AI-Powered Remediation [*Group Academic Project*]
Tech Stack: Kubernetes, ArgoCD, Docker, GitHub Actions, Python, ML, SonarQube, Trivy

- Contributed to building an end-to-end autonomous DevSecOps pipeline implementing self-healing security
- Developed the AI-powered remediation component for automatic vulnerability detection and fix generation
- Implemented GitOps workflow with ArgoCD for Kubernetes deployment synchronization
- Integrated container security scanning with autonomous base image remediation
- Collaborated in a 3-person team to design and deploy the complete CI/CD pipeline

3. Fake Reviews Detection - ML Classification System [*Personal Project*]
Tech Stack: Python, Scikit-learn, NLTK, Pandas, NLP, Machine Learning

- Developed a machine learning system to classify fake vs authentic product reviews with 88% accuracy using SVM
- Processed dataset of 40K reviews with comprehensive NLP preprocessing: tokenization, stemming, lemmatization, and stopword removal
- Implemented and compared 6+ ML algorithms including Logistic Regression, Random Forest, and Naive Bayes
- Engineered text features using CountVectorizer and TF-IDF vectorization techniques
- Analyzed model performance with accuracy metrics and conducted comparative algorithm analysis
- Built end-to-end ML pipeline from data cleaning to model evaluation and selection

4. Intelligent Cloud Load Balancer with SLA-Aware Scaling [*Personal Project*]
Tech Stack: Python, Cloud SDKs, Weighted Algorithms, Auto-scaling, OOP

- Designed and implemented a weighted load balancer for IaaS clouds combining CPU (70%) and memory (30%) metrics
- Developed SLA-tiered threshold system with probabilistic VM selection using inverse-weighted load scores
- Integrated auto-scaling triggers with 300ms cooldown when no VMs meet resource thresholds
- Optimized performance achieving 22% reduced latency compared to round-robin in simulated environments
- Achieved 92% successful request dispatch rate during stress tests handling 1,000+ RPS
- Implemented tiered QoS maintaining <75% CPU usage for Platinum-tier VMs vs <80% for Gold-tier

ACHIEVEMENTS, CERTIFICATIONS &COURSES

Certifications:
- Certified Workshop on UI/UX, Software Testing & Automation   [Apr' 2025]
- J.P. Morgan - Software Engineering Job Simulation   [Oct' 2025]

Achievements:
National Service Scheme (NSS) | Led community service initiatives   [Mar' 2023- Apr' 2025]

Courses:
- NxtWave CCBP 4.0 - Full Stack Web Development & DSA   [Ongoing]
- Introduction to Cognitive Psychology - Nptel, IIT Guwahati   [Jan' - Apr' 2025]
- Wildlife Ecology - Nptel, IIT Kanpur   [Apr' 2025]

COMPETENCIES

- Quick learner
- Problem solver
- Critical Thinker
- Team player