Priyanshu Kumar

B.Tech CSE — Cloud Computing, DevOps, Machine Learning (ML), Artificial Intelligence (AI), Full-Stack Engineering
Bhopal, India
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LinkedIn — GitHub

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, HTML, CSS, Bash
Frameworks: Flask, Streamlit, React, Node.js, Pandas, NumPy, Scikit-learn, Matplotlib
Cloud/DevOps: AWS, Azure, IBM Cloud, Docker, Kubernetes, Terraform, Linux, Git, CI/CD, Cloud Security
Databases: MySQL, MongoDB, PostgreSQL, Data Lake
Other: REST APIs, Microservices, Data Structures, Cloud Architecture, Agile, Scrum, TDD, Data Analytics, Model Deployment, Automation, IoT Integration

EDUCATION

Vellore Institute of Technology (VIT), Bhopal 2023–2027
B.Tech, Computer Science and Engineering (Cloud Computing & Automation), CGPA 8.25/10
Achievements: Research in QoS routing, greenhouse gas emissions; developed scalable cloud-native solutions.

Kendriya Vidyalaya Janakpuri, Delhi 2023
Class XII, CBSE Board, 84.6%

International Indian Public School (IIPS), Riyadh 2021
Class X, CBSE Board, 84.6%; Computer Science School Topper

CERTIFICATIONS

AWS Certified Cloud Practitioner
Validated core AWS services (EC2, S3, RDS), IAM, cloud security, billing, and cloud architecture best practices.
Verify Credential

Microsoft Certified: Azure Data Fundamentals (DP-900)
Proficiency in relational/non-relational databases, ETL, data workloads, Azure SQL, Cosmos DB, Data Lake, and cloud data-driven decision making.
Verify Credential

WORK EXPERIENCE

Research Intern, GHG Emissions Monitoring Project (Remote, UAE) May–Jul 2024
– Managed Agile team of 4; scheduled sprints and tracked milestone deliverables for cloud-based analytics.
– Engineered machine learning models (Python, scikit-learn) for real-time greenhouse gas emission forecasting with IoT data ingestion.
– Designed and deployed Streamlit dashboards on AWS for live analytic reporting, KPI visualization, and sustainability metrics.
– Automated carbon credit analytics processes, reducing reporting time by 40%.
– Authored technical documentation and delivered data-driven insights to cross-functional teams across multiple international sites.

RESEARCH PROJECTS

AI-Based QoS Routing in Fog Networks — VIT Bhopal 2025–
Developed multi-objective reinforcement learning (RL) and blockchain-backed decentralized protocols to optimize low-latency, high-reliability routing in simulated fog network topologies.

Deepfake Detection using CNN-RNN Architectures — VIT Bhopal 2024–2025
Built and deployed end-to-end video analysis system leveraging CNN+LSTM hybrid architectures; improved synthetic video detection accuracy by 15% using audio/temporal features; implemented API on Flask.

PROJECTS

Forest Fire Prediction System Sep–Dec 2024
Orchestrated end-to-end ML pipeline (Random Forest, Decision Tree, PCA) in Python; designed user-facing Flask/MySQL platform achieving 92% precision in identifying high-risk sectors.

Deepfake Detection System Feb–Mar 2025

Developed production-ready, RESTful API-based image/video deepfake classifier (CNN+LSTM); deployed demo web frontend for public testing.

LEADERSHIP & VOLUNTEERING

PR & Outreach, EV Club, VIT Bhopal 2024–2025

– Launched targeted outreach, driving a 30% increase in student engagement using digital marketing tools.

– Coordinated event planning, social partnerships, and cross-team communications in a fast-paced club environment.