Divyanshu Rajput

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EDUCATION

Maharana Pratap College of Professional Studies Kanpur, India

Bachelor of Computer Applications: GPA: 8.37 **August 2023 - Present**

Relevant Coursework: Distributed Systems, Software Engineering, Data Structures, Algorithms, DBMS

SKILLS SUMMARY

- **Languages:** Python, Javascript, Typescript, C/C++, SQL, HTML, CSS
- **Machine Learning:** Pytorch, Tensorflow, Scikit-Learn, Pandas, NumPy, Matplotlib
- **Tools&DevOps:** Git, Docker, Kubernetes, DVC, CI/CD (Github Actions), MLflow, AWS ECR, AWS EC2, DockerHub, GitHub, Digital Ocean, Google Cloud
- **Frontend:** ReactJS, ReduxJS, NextJS, TailwindCSS
- **Backend&APIs:** FastAPI, Flask, Streamlit, Django, NodeJS, ExpressJS
- **Database:** MongoDB, SQL, PostgreSQL, Redis, AWS S3
- **Platforms&IDEs:** VSCode, PyCharm, Jupyter Notebook, Google Colab

PROJECTS

Vehicle Insurance Prediction | Link | Codebase

1. **End-to-End MLOps Pipeline**: Developed a complete machine learning pipeline for vehicle insurance data, covering ingestion, validation, transformation, training, evaluation, and deployment.
2. **MongoDB & AWS Integration**: Utilized MongoDB Atlas for data storage and AWS (S3, EC2, ECR) for scalable cloud-based model evaluation and deployment.
3. **Robust Backend with FastAPI & Streamlit**: Built REST APIs and a web-based interface to serve real-time predictions using FastAPI and Streamlit.
4. **Automated CI/CD Workflow**: Implemented CI/CD using GitHub Actions, Docker, and AWS self-hosted runners for seamless deployment to EC2.
5. **Modular & Scalable Codebase**: Designed a modular architecture with logging, exception handling, reusable components, and environment variable support for production-ready development.

Credit Card Fraud Detection | Link | Codebase

1. **Built a Real-Time Fraud Detection Pipeline** using machine learning models to identify suspicious credit card transactions with high accuracy.
2. **Data Handling & Preprocessing**: Applied advanced feature engineering and handled class imbalance using techniques like SMOTE and under-sampling.
3. **Model Deployment with FastAPI**: Developed and exposed a REST API for real-time fraud prediction using FastAPI.
4. **CI/CD & Containerization**: Automated the build and deployment process using Docker, GitHub Actions, and deployed the service on AWS EC2.
5. **Model Monitoring & Versioning**: Integrated MLflow for tracking experiments and DVC for managing datasets and model versions effectively.

CERTIFICATES

Machine Learning with Python - Udemy | CERTIFICATE

100 Days of Code: The Complete Python Pro Bootcamp - Udemy | CERTIFICATE

MongoDB Node.js Developer Path – MongoDB University | CERTIFICATE

Foundations of Git – Git Kraken | CERTIFICATE