Pushkar

9711049232 - Delhi/NCR - p.pushkar2510@gmail.com - linkedin.com/in/pushkar25 - github.com/Pu5hk4r

EDUCATION

Maharshi Dayanand University   **Rohtak, Haryana, India**
B.TECH in Computer Science and Engineering   *Graduated - 2024*

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL
Backend: FastAPI, Django, RESTAPIs, JWT Auth, Async Programming
Databases: PostgreSQL, MySQL, SQLAlchemy ORM, Alembic
DevOps & Tools : Docker, Git, Github, Linux, Nginx,CI/CD (Github Actions)
Cloud: AWS(EC2, S3, IAM)
Data & ML: Pandas, NumPy, scikit-learn (light ML integration)
Other: Logging, Error Handling, Caching & Rate Limiting (Redis - basic), Background Tasks

PROJECTS

Real-Time Taxi Demand Forecasting System   GitHub
FastAPI, PostgreSQL, Pyspark, ML (Random Forest), Docker

- Built a dashboard-driven system to visualize real-time taxi demand trends across multiple cities and zones.
- Developed and tuned a Random Forest regression model achieving an R^2 score of 0.93 for high-accuracy demand prediction.
- Served ML predictions through a backend API, enabling seamless real-time integration between the model and dashboard.
- Designed data pipelines for preprocessing, feature engineering, and hourly demand analytics to support forecasting.

Smart Bank Loan Management & Risk Prediction System   GitHub
React + FastAPI, PostgreSQL, ML(Random Forest), Dataset

- Developed backend APIs for loan creation, approval workflow, EMI scheduling, and secure user authentication.
- Integrated Random Forest model to predict borrower default risk and automatically assign credit grades (A–G).
- Implemented dynamic interest rate assignment based on model-driven risk assessment and borrower profile.
- Designed normalized PostgreSQL schema for loans, users, risk scores, and repayment logs with proper indexing.

Brain Tumour Detection API System   GitHub
Flask, PostgreSQL/MongoDB, Docker

- Built an end-to-end backend service for MRI brain tumour detection integrating a deep-learning model with a web API interface.
- Implemented secure file upload pipeline with server-side validation, preprocessing, and inference routing using a modular backend architecture.
- Designed database layer to store predictions, user logs, and metadata; enabled analytics and audit workflows.
- Containerized the application using Docker and structured the system for production deployment with environment-based configuration.

CERTIFICATIONS

- Python Programming Certification – Anaconda
- Docker Foundations – LinkedIn Learning
- System Design and API Development – Online Bootcamps
- Career Essentials in Data Analysis – Microsoft

EXTRACURRICULAR ACTIVITIES

- Volunteered in college technical events and assisted juniors with Python and SQL concepts.
- Participated in informal chess meetups and college chess events.