

PUSHKAR

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ABOUT ME

Python Backend Developer with hands-on experience building REST APIs, integrating ML/LLM pipelines, and deploying containerized systems on GCP. Proficient in FastAPI, Django, LangChain, LangGraph, PostgreSQL, and Docker. Built end-to-end AI-powered tools including a GitHub PR reviewer agent (LangGraph + RAG) and a real-time API monitoring system. Seeking entry-level Backend, Data Engineering, or AI/ML Engineering roles in India.

SKILLS

Languages: Python, SQL

Backend: FastAPI, Django, REST APIs, JWT Auth

AI / LLM: LangChain, LangGraph, RAG, Groq, Gemini AI, scikit-learn

Data Engineering: Apache Kafka, Apache Airflow, PySpark, Pandas

Databases: PostgreSQL, ChromaDB, pgvector, Firestore, SQLite

DevOps / Cloud: Docker, Docker Compose, GCP (Cloud Run, Compute Engine), Nginx, Linux, Git

Frontend: React (basic)

PROJECTS

CodeReview AI Agent

github.com/Pu5hk4r/CODEREVIEW-AI-AGENT

FastAPI | LangGraph | Groq (Llama 3.1 70B) | pgvector RAG | PostgreSQL | Docker | React

- Built a multi-step LangGraph agent (fetch → analyze → review → post) that reviews GitHub Pull Requests like a senior engineer, powered by Groq's Llama 3.1 70B LLM for fast, structured code feedback.
- Implemented a RAG pipeline using pgvector + sentence-transformers to retrieve semantically similar code chunks, enabling context-aware reviews across large codebases.
- Exposed GitHub webhook endpoints in FastAPI to auto-trigger reviews on PR open/update events; posts structured inline comments directly to GitHub PRs via PyGithub.
- Stored all review results in PostgreSQL via SQLAlchemy async ORM; containerized backend + React dashboard with Docker Compose, designed for GCP Cloud Run deployment.

API Monitor & Analytics System

github.com/Pu5hk4r/API-Monitor-Analytics

FastAPI | React | Firebase Auth | Gemini AI | SQLite | Docker | Nginx | GCP

- Built a production-ready real-time API health monitoring system tracking uptime, response times (p50/p95/p99), and error rates for any HTTP/HTTPS endpoint at configurable intervals.
- Integrated Google Gemini AI for intelligent error diagnostics — automated root-cause analysis and remediation suggestions on API failures.
- Backend features 10 concurrent background workers, 5-min in-memory caching, rate limiting (100 req/min), Firebase Authentication, Pydantic validation, and CORS protection.
- Deployed with Docker Compose + Nginx reverse proxy (SSL/TLS termination); React frontend served via S3 + CloudFront with Chart.js dashboards for real-time visualization.

Real-Time Taxi Demand Forecasting Pipeline

github.com/Pu5hk4r/RealTimeTaxiDemandPipeline

PySpark | FastAPI | Apache Airflow | Kafka | scikit-learn | Docker | GCP

- Trained a Random Forest model ($R^2 = 0.93$) on NYC taxi data using PySpark; served real-time demand predictions via a FastAPI inference endpoint.
- Designed Airflow DAGs for automated ETL: data ingestion, temporal/spatial feature engineering, model retraining, and daily batch scoring jobs.
- Integrated Kafka for live data streaming to continuously refresh the prediction pipeline without batch delays; containerized all components with Docker.

Smart Bank Loan Management System

github.com/Pu5hk4r/SmartBankLoanManagementSystem

FastAPI | PostgreSQL | React | scikit-learn | JWT Auth | Docker

- Built a full-stack loan management platform with an integrated ML loan risk model (Logistic Regression, 83% accuracy) embedded directly into the FastAPI backend service layer.
- Designed normalized PostgreSQL schema (users, loans, auth tokens, model outputs); implemented JWT-based role authentication and full Swagger/OpenAPI docs.

EDUCATION

B.Tech in Computer Science & Engineering

Graduated – 2024

Maharshi Dayanand University, Rohtak

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, System Design, Computer Networks

CERTIFICATIONS

- Python for Data Science – Anaconda
- Career Essentials in Data Analysis – Microsoft