AKHIL PL

DEVELOPER / DATA SCIENTIST

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github.com/akhil-pl

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SKILLS

- **Python** (FastAPI, Flask, Django)
- **JavaScript** (ReactJS, VueJS)
- **SQL** (PostgreSQL, MySQL, SQLite)
- **HTML5 / CSS** (Tailwind, Bootstrap)
- **Azure, AWS, CLI, Linux**
- **Git, Celery, Redis, NATS**
- **Java**
- **Microservice and Distributed Systems**

- **Data Analysis** (NumPy, Pandas, Matplotlib, MS Excel, MS Power BI)
- **Machine Learning** (Scikit-Learn, PyTorch, TensorFlow)
- **Data Science** (Data: Extraction, Cleaning, Exploration, Visualisation and Model: Building, Evaluation, Deployment, Monitoring)

EDUCATION

BS in Data Science and Application
IIT Madras, 2021 – 2025

Diploma in Data Science
IIT Madras, 2022 – 2023

Diploma in Programming
IIT Madras, 2021 – 2022

PROFILE

Versatile professional with over 3+ years of experience in Programming and Data Science, adept at applying a diverse skill set across data-driven roles spanning backend, database management and frontend. Expertise in AI, ML and Data Science, combined with strong programming and engineering proficiency, enables the delivery of comprehensive solutions. Commitment to continuous learning and growth, with proven track record of adapting to new challenges and technologies.

EXPERIENCE

Cloudium Software

Associate Consultant   *Mar 2024 – Present*

Project: Joinery (Dating Application with social media features)
- Designed database schema and microservice architecture for a system expecting a user base of at least 5M in initial phase.
- Upgraded a rule-based recommendation engine using Apache AGE and obtained a performance improvement of about 200%.
- Deployed NATS cluster as a message broker for inter service communications and real time notification, along with Firebase.
- Implemented RBAC using Casbin for admin service.
- Used Cloud CDN to serve media files stored in GCP bucket.
- Monitored, evaluated and standardized other project codes as a member of the organisation's Advisory Committee.

DataPMI Inc

Junior Developer   *Aug 2023 – Feb 2024*

Project: DoCC (Data on Cruize Control: A No-Code ETL tool)
- Developed a Data ETL tool using FastAPI and dbt.
- Programmed code that generate automated python scripts for data ingestion and transformation jobs.
- Devised RESTful APIs for CRUD operations and middleware for token-based authentication and logging.
- Deployed alpha version of the application backend in nginx server for testing and frontend integration, within the timeline.

Developer (Intern)   *Mar 2023 – Jul 2023*

Project: Inhouse application for recruitment team.
- Conceptualized, build and installed a system using Django framework with ReactJS in frontend and MySQL as database.
- Coordinated with cross-functional teams of primary and secondary users to identify functional requirements.
- Achieved a 30% reduction in recruitment app usage fee, in turn.

PROJECTS

Taxi Fair Prediction (ML)   *Sept 2023 – Dec 2023*
- Trained ML model with 0.93 R2 score to predict taxi price
- Trained using: KNN, PCA and Bagging Regressor
- www.kaggle.com/code/akhilpl/21f1006584-notebook-t32023

Kanban Board App (Web)   *Jan 2022 – Dec 2022*
- Web-app to track user tasks, with scheduled jobs functionality.
- Build using: Flask, VueJS, SQLite, Redis, Celery
- https://github.com/akhil-pl/kanban_app

CERTIFICATIONS

- **MS Power BI Data Analyst:** Microsoft Certified (PL-300)*
- **Data Visualisation, Deep Learning:** IIT Madras
- **Web App using Django:** IIT Madras
- **Azure**(AZ-900), **Azure AI**(AI-900)**:** Microsoft Certified