Khushi Sabarad

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SKILLS

Programming Languages: Python, SQL, R, HTML
Data Engineering: ETL Processes, Data Pipelines (PySpark), Data Modeling, Data Warehousing
Cloud, Big Data & Tools: AWS, GCP, API Development, ML, Hadoop, Excel, Databricks, JIRA, Git

EXPERIENCE

Associate Software Engineer | d'Alchemy | Bangalore, India | January 2023 – February 2024
- Led end-to-end test automation using Pytest mocker, ensuring system reliability and significantly reducing release risk
- Developed and maintained RESTful APIs for secure and efficient data transfer between systems
- Conducted extensive functional and integration testing using Postman, ensuring high-quality API performance
- Built scalable PySpark CI/CD pipelines, optimizing ETL processes, improved ML training data delivery speed by 40%
- Designed and optimized a normalized PostgreSQL database on AWS EC2, enabling scalable and secure data ingestion
- Reduced application runtime by 70% through modularization, SQLAlchemy, Flask, and Marshmallow optimization
- Authored High-Level Design (HLD) and Low-Level Design (LLD) documentation, enhancing system clarity, team collaboration and product planning
- Mentored 8+ team members in HDFS, database management and API testing best practices
- Analyzed large AgroTech datasets, contributing to actionable insights and data-driven business decisions

PROJECTS

E-commerce API Development
- Designed, developed, and tested a secure RESTful API using Python (Flask) and PostgreSQL
- Implemented user authentication with JWT, input validation with Marshmallow, and API rate limiting
- Executed comprehensive functional, integration, and negative test cases using Postman to ensure API reliability
- Managed database operations and debugging using pgAdmin; maintained version control with Git

Payment Gateway Simulator
- Developed a payment gateway system using Flask REST APIs, handling authorization, capture, and refund transactions
- Ensured secure data transmission with HTTPS and integrated a SQLite database for transaction management
- Developed comprehensive unit and integration tests using PyTest to ensure API reliability and accuracy

Automated Menu Data Extraction and Processing Tool
- Automated menu data retrieval using a Python-based web scraper (BeautifulSoup)
- Structured and formatted menu data into Excel files using pandas and openpyxl for streamlined updates
- Improved menu update efficiency and accuracy by replacing manual update time by 90%

VOLUNTEER

Community Manager | Zostel, Vagamon | November 2024 – January 2025
- Built and maintained strong relationships with a diverse international community, fostering a sense of belonging
- Took initiative in enhancing the Zostel experience by organizing and leading around 28 weekly events

PUBLICATIONS

Revolutionising Concrete Engineering: Predicting Material Properties with AI Insights | April 2024
Published in *Artificial Intelligence for Multimedia Information Processing: Tools and Applications* (Taylor & Francis)

EDUCATION

Bachelors in Computer Applications (Data Science & Analytics) | St Joseph's University, Bangalore | 2023