Hassan Rauf Butt

Software Engineer

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Work Experience

Data-Driven Backend Engineer
Mylantech | Munich

Feb 2025 - Present

- Developed scalable, production-ready backend services using FastAPI and PostgreSQL, powering AI-driven features across the Predictivo platform
- Built an intelligent FastAPI-based system that converts natural language into optimized SQL queries on data using DuckDB, enabling seamless, code-free data analysis with integrated validation, critique, and explanation agents.
- Built backend APIs to seamlessly integrate LLM capabilities into the web platform, enabling real-time AI-driven features and cutting manual reporting efforts by 40%
- Designed and integrated GenAI-powered APIs using OpenAI's GPT models, enabling real-time features like smart report generation and contextual assistance, reducing manual workload by 40%.
- Created robust forecasting workflows using XGBoost, Prophet, and SARIMA, delivering reliable 18-month predictive analytics across product verticals.
- Automated deployment pipelines using Docker, Jenkins, and GitHub Actions while standardizing and cleaning data from 10+ disparate sources, resolving schema and timestamp inconsistencies and boosting downstream model readiness by 60%.

STUDENT RESEARCH ASSISTANT SCIENTIST
ROBOTICS INNOVATION CENTER GERMAN RESEARCH CENTER FOR ARTIFICIAL INTELLIGENCE DFKI

Feb 2024 - Aug 2024

- Developed efficient UIs with TypeScript and Svelte, boosting data acquisition speed by 20% in SeMoSys, and contributed to open-source map annotation tools for Reinforcement Learning in robotics.
- Built an asynchronous image upload and retrieval system using FastAPI and MongoDB GridFS, significantly improving processing speed and responsiveness for concurrent requests.
- Developed a secure, real-time email management app using React, FastAPI, and imaplib, achieving a 30% boost in access speed and 40% increase in retrieval efficiency with IMAP polling.
- Technology Stack : Svelte, TypeScript, FastAPI, Python, MongoDB, Web Sockets, Docker, CI/CD (GitHub Actions),Workflows.

Core Skills

Python, FastAPI, MongoDB, MySQL Docker, Svelt, React, firebase, Github Actions, NoSql, Python, TypeScript, RESTful, API Development, Asynchronous Programming, Flutter, WebSockets, Tailwind CSS, CI/CD (Github Actions)

Education

Brandenburg University of Technology

Oct 2023 - Oct 2025

MASTER Artificial Intelligence