Ibrahim Kalil Jagir Hussain *AI Engineer / Data Science*

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AI-Native Builder & Data Science Master's student at TU Hamburg. I don't just study models, I build the systems around them. Recently, I've been shipping end-to-end projects using Next.js, v0, and Cursor AI—including an AI companion and a matchmaking platform. I'm a high-velocity engineer who thrives in the "0→1" space, moving from a messy problem to a production-ready feature while others are still reading the documentation

SKILLS

Programming & Backend: Python, SQL, FastAPI, PySpark

Web & Modern Dev: JavaScript/TypeScript, React, Next.js (Learning/Hobbyist), Cursor AI, v0.

Data & Cloud: Azure, AWS, Databricks, Docker, Git, ETL/ELT pipelines.

Analytics: Statistical testing (A/B testing), Power BI, Tableau, Predictive Modeling

Collaboration: Jira, Confluence, Microsoft 365, SharePoint.

Platform & Ops: Databricks (Jobs/Spark UI), Azure Monitor, Datadog, Log Analytics.

EDUCATION

Technical University of Hamburg,
Msc Data Science
2023/10 – Present | Hamburg, Germany

Anna University, *Bachelors of Engineering in Computer Science*

PROFESSIONAL EXPERIENCE

Working Student Data Science, *Visable GmbH*
2024/03 | Hamburg, Germany

- **AI Optimization**: Developed and optimized product recommendation systems, including prompt engineering and evaluation for AI components.
- **Monitoring & Stability**: Validated and monitored LLM-based features to ensure production readiness and operational consistency.
- **Predictive Modeling**: Built data workflows to support LightGBM predictive modeling for customer retention and churn analysis.
- **Automation**: Utilized OpenAI APIs within Python frameworks to automate tasks and enhance AI-powered features.

Software developer, *Blue Ocean Strategic Partners*
2022/08 – 2023/08 | United States

- **Pipeline Management**: Designed and maintained Azure Data Factory pipelines for data ingestion, transformation, and scheduled workflows.
- **Process Automation**: Automated business and data processes using Azure services and Power Automate.
- **Legacy Migration**: Migrated legacy workflows to Power Automate, improving standardization and turnaround time.
- **Technical Support**: Developed Python scripts for data processing, validation, and reporting support.

Data Engineer, *Tiger Analytics*
2022/02 – 2022/08

- **Mentorship**: Trained and mentored over 30 junior programmers and developers in Azure data engineering services.
- **Engineering Workflows**: Designed and developed data engineering workflows using Azure Data Factory.
- **Collaboration**: Defined data requirements in cooperation with analysts, data scientists, and stakeholders.

PROJECTS

Mesh It (Cursor AI Hackathon Project) 2026/02 – Present

- **Full-Stack AI:** Built an end-to-end developer matchmaking platform using **Cursor AI** to accelerate development speed and code quality.
- **Intelligent Matching:** Integrated AI-driven code analysis to match developers based on skillsets, mirroring the "matching and classification" workflows required for finance data.
- **Rapid Prototyping:** Transitioned from "messy problem" to a functional demo within a hackathon timeframe, demonstrating the ability to build systems with guidance.

Master Thesis: Neuro-Symbolic AI Framework 2025/07 – 2025/12

- Developed a neuro-symbolic framework combining fuzzy logic constraints with deep learning for image classification.
- Achieved a 98% reduction in logical violations, ensuring the model adheres to real-world rules, a critical requirement for safety-critical systems

LANGUAGES

- English
- German