

# ABDUL HAKEEM SH

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[Portfolio](#)



## SUMMARY

Electronics and Communication Engineering graduate specializing in backend engineering, AI-driven systems, and automation workflows, with hands-on experience in building Digital Twin solutions. Currently building scalable AI model platforms using FastAPI, PostgreSQL, MinIO, PyCaret, and AutoGluon, with a focus on agentic orchestration, model lifecycle management, and intelligent workflow automation. Experienced in designing REST APIs, model training pipelines, EDA automation, versioned model management, AI service orchestration, and Digital Twin architectures using modern backend systems. Actively exploring Agentic AI and multi-agent workflows. Skilled in Python, Java, Spring Boot, API development, and system integration, passionate about building intelligent platforms that combine automation, AI, and scalable backend systems. Seeking opportunities in AI engineering, backend platforms, Digital Twin solutions, and next-generation intelligent systems.

## PROFESSIONAL EXPERIENCE

### TATA ELXSI, Engineer

- Developed a scalable AI model lifecycle platform using FastAPI, PostgreSQL, MinIO, PyCaret, and AutoGluon, enabling automated dataset ingestion, EDA generation, model training, retraining, versioning, and prediction through secure RESTful APIs. Implemented modular microservices architecture with intelligent workflow automation using agentic orchestration tools.

January 2024 - Present

Chennai, India

## PROJECTS

### Model Builder

- Built an end-to-end AI model lifecycle platform using FastAPI, PostgreSQL, MinIO, PyCaret, and AutoGluon to automate dataset ingestion, EDA generation, model training, retraining, versioning, and prediction via scalable REST APIs. Designed dual model engines with identical interfaces and integrated agentic workflow orchestration for intelligent automation, monitoring, and approvals.

### Multipurpose IoT Tracker

- The Multipurpose IoT Tracker is a versatile device that integrates GPS tracking, SOS functionality, and audio surveillance, optimized for low power consumption, designed for real-time monitoring and security applications.

## SKILLS

### Technical Expertise

- Digital Twin Architecture
- AI Model Lifecycle Systems
- Agentic Workflows
- Cloud-Native Backend Systems

### AI/ML

- AutoML
- Agent AI Orchestration
- OpenAI
- Claude

### Frameworks & Libraries

- Pycaret
- AutoGluon
- FastAPI
- Flask

### Programming & Databases

- Python
- PostgreSQL
- MinIO
- InfluxDB
- Core Java
- MongoDB

## INTERESTS

- Artificial Intelligence and Machine Learning
- Web and API Development
- Embedded Networking and IoT Systems
- Digital Twin and System Integration

## EDUCATION

**Bachelor of Engineering - Electronics and Communication Engineering,**  
R.M.K. Engineering College  
CGPA : 8.66

2020 - 2024

Chennai, India

**HSC, Madras Christian College Higher Secondary School**  
Marks : 79%

2019 - 2020

Chennai, India

**SSLC, Madras Christian College Higher Secondary School**  
Marks : 94%

2017 - 2018

Chennai, India