MD RAFIQUL ISLAM

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Skills

Programming
Python, Java, C, SQL, PostgreSQL, Bash, Git, Docker

ML/DL Frameworks
TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas

Web & APIs
Streamlit, FastAPI, Flask, ReactJS

AI/ML Tools
Azure OpenAI, OpenAI API, Hugging Face, LangChain, LlamaIndex, CrewAI

Cloud Platforms
AWS, Azure Cloud

Specializations
NLP, Computer Vision, Supervised/Unsupervised Learning, Model Deployment

Education

MCA
University of Delhi

B.Sc (Hons.) Math
Jamia Millia Islamia

Certifications

Data Science & ML
Scaler Academy
Feb '22 – Present

Publications

Markdown Analyzer
pypi.org/project/markdown-analyzer-lib

Achievements

Client Success
Led 5+ enterprise AI deployments

Model Performance
Achieved 95%+ accuracy in production systems

Experience

Applied AI Engineer | *Impressico Business Solutions*
Jul '21 – Present / Noida, UP

- Developed end-to-end NLP pipelines using Azure OpenAI & Hugging Face; reduced manual effort by 60%
- Built BERT-based MCQ grading automation achieving 95% accuracy with reusable FastAPI microservices
- Delivered LLM-powered semantic search, summarization & classification for Inflation.ai, cutting data retrieval time by 45%
- Led client AI integrations across healthcare and finance sectors, boosting team efficiency by 35%

Machine Learning Intern | *University of Delhi*
Jan '21 – Jul '21

- Built predictive models for stock trends; improved accuracy by 15% via data cleaning & feature engineering
- Collaborated with faculty to validate ML performance and optimize hyperparameters

Projects

SEBI Circulars Management System | *Streamlit, LangChain, OpenAI, Pinecone, Gmail API*

- Automated processing of SEBI circulars via email; extracted key details, deadlines, and action items
- Built smart routing system to distribute summaries to appropriate departments for regulatory compliance

Impressico Multi-User Legal Chatbot | *LangChain, OpenAI, FastAPI, WebSockets*

- Developed collaborative legal platform with real-time case discussions and AI-powered document drafting
- Implemented "Drafter" bot with versioned document editing based on user feedback and comments

Travel Planner AI | *LangChain, OpenAI, CrewAI, Google Maps API*

- Built AI-driven itinerary planner for 10k+ destinations with 95% user satisfaction rate
- Integrated live hotel & flight APIs; reduced planning time by 75%

Synaptic Analysis – Autism Research | *Python, PyTorch, OpenCV*

- Processed hospital .tiff image stacks to identify ROIs for autism research (California Hospital)
- Automated fluorescence extraction using PyTorch + OpenCV; increased analysis speed by 70%

Complaint Manager AI | *CrewAI, LangChain, FastAPI*

- Designed multi-agent workflow for email complaint resolution; reduced response time by 60%
- Achieved 93% accuracy in automated healthcare complaint categorization

Smart Search Query Engine | *LangChain, OpenAI, Hugging Face, ReactJS*

- Built semantic query system using LlamaIndex; improved data retrieval speed by 45%
- Optimized search relevance from 65% to 91% through prompt-tuning techniques