Mohammed Harshath SS

Coimbatore | harshath142@gmail.com |+91-8667701712 |Linkedin: Mohammed Harshath SS | Github : Harshath | Portfolio

SKILLS

LANGUAGES

Python • C Sharp • Git
• R • HTML • CSS • SQL
• JavaScript

TOOLS

Jupyter Notebooks • Google Co-lab •DBeaver • Git • VS Code •Microsoft Power BI Dashboards and Reports• Excel • Ollama

FRAMEWORKS

Data Science & AI
Machine Learning & Deep Learning :
TensorFlow • PyTorch
Natural Language Processing :
NLTK • SpaCy
Web Scrapping : BeautifulSoup •
Scrappy • Flask • Selenium
Testing: UI Automation Suite
Git •Azure DevOps • PostMan • API
Generative AI : Hugging Face Transformers • Langchain • Stable Diffusion • Code Llama

EDUCATION

MASTER DATA SCIENCE

IIT-M GUVI
GRADE : A
August 2024-December 2024

B.TECH AI & DATA SCIENCE

Kathir College of Engineering
CGPA : 8.02
June 2021 -May 2024

COURSEWORK

UNDERGRADUATE

Programming Fundamentals
Data Structures and Algorithms
Database Systems
Computer Networks
Operating Systems
Software Engineering
Web Technologies
Artificial Intelligence

EXPERIENCE

DATA ANALYST INTERN | WeInvest

July 2023 - September 2023 | Chennai, In
- Processed and cleaned **10,000+ investment records**, improving data quality for analysis.
- Implemented **PCA**, reducing feature dimensions by **30%**, optimizing computational efficiency.
- Conducted **K-Means clustering**, segmenting customers into **5+ distinct investment groups**, leading to better-targeted financial strategies.
- Developed **customized investment plans**, increasing portfolio returns by **15%** based on customer segmentation insights.

PROJECTS

VOICEGPT – MULTILINGUAL VOICE-BASED AI ASSISTANT | Personal AI Project

- **Developed a multilingual AI voice assistant** supporting Tamil and Marathi, using **Wav2Vec2** for accurate speech-to-text conversion and **MMS-TTS** for natural text-to-speech responses.
- **Fine-tuned intent classification models** using transformer-based architectures for accurate understanding and response generation in multiple languages.
- **Implemented Retrieval-Augmented Generation (RAG)** with **Sentence Transformers** to deliver contextually relevant, real-time answers from a dynamic knowledge base.
- **Built an end-to-end, offline AI assistant system** that processes all data locally, ensuring privacy, security, and seamless user interaction without reliance on cloud-based services.

AI AGENT – INVESTMENT ADVISORY SYSTEM | Personal AI Project

- **Developed an AI-based investment advisory system** that leverages **LangChain** and **RAG architecture** to provide personalized financial advice based on stock market data and user preferences.
- **Utilized transformer models** to predict stock price trends, enhancing decision-making by delivering tailored investment suggestions and forecasts.
- **Implemented FAISS for efficient context retrieval,** allowing the system to pull relevant financial data quickly and generate accurate, timely advice.
- **Built a scalable, modular architecture,** deploying the system in a production-ready environment to handle real-time user queries and provide personalized recommendations.

CERTIFICATIONS

- **Master Data Science** - IITM GUVI, Dec 2024
- **Advanced Programming Professional** -IITM GUVI, Dec 2024
- **Microsoft Data Analyst (PL-300)** -Udemy, Jun 2024
- **Data Analytics with Power BI** - ICT Academy, Oct 2023