

Mohammed Harshath SS

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SKILLS

LANGUAGES

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

TOOLS

Jupyter Notebooks • Google Colab • 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 •
Scrapy • 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

CARDEKHO VEHICLE RECOMMENDATION SYSTEM | PERSONAL PROJECT

- Developed a machine learning-powered recommendation engine using **collaborative filtering**, enhancing personalized car suggestions based on **price, specifications, and features**.
- Engineered a robust data pipeline by **scraping real-time vehicle data** using **Selenium & SQL**, transforming **unstructured data** into **structured insights** with **30+ engineered features**.
- Achieved a **precision@10 score of 0.75**, optimizing the recommendation system for **high user engagement & purchase intent predictions**.

DEEPIVE AI - PAPERINSIGHT (AI-POWERED RESEARCH PAPER SUMMARIZATION) | PERSONAL PROJECT

- Developed an AI-powered research paper querying system using **RAG architecture**..
- Implemented **FAISS/Pinecone** for efficient vector search.
- Integrated **GPT-based AI models** to generate contextual insights and built a **Streamlit dashboard** for real-time visualization and deployment..

FAKE REVIEW CLASSIFICATION AND TOPIC MODELING | PERSONAL PROJECT

- Built an AI-driven fake review detection system leveraging **BERT, NLP**, and **sentiment analysis**, enhancing **review authenticity & fraud detection**.
- Deployed a scalable, production-ready API with **FastAPI & Docker**, ensuring **efficient real-time classification & seamless third-party integration**.
- Optimized text preprocessing using **NLTK & Scikit-learn**, improving **classification accuracy & topic extraction** with **LDA modeling** for **insightful consumer sentiment analysis**.

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