MASUD SAJID

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Education

FAST NUCES **August 2021 – Present (Expected December 2025)**
Bachelor of Science in Computer Science *Lahore, Punjab*

Relevant Coursework

- Data Structures
- Advanced Programming
- Algorithms Analysis
- Database Management
- Software Engineering
- Software Design Analysis
- Artificial Intelligence
- Computer Networks

Work Experience

AI Developer **June 2025 – Present**
Orbithinx *Lahore, Pakistan*
- Enhancing an AI-powered health management system by integrating Flask, PostgreSQL, MySQL, and OpenAI GPT models.
- Implemented vector search using PGVector and built RAG-based pipelines with LangChain for efficient document retrieval.
- Collaborating with the team to handle client queries and optimize chatbot response accuracy and speed.
- Streamlined data pipelines for health analytics and automated workflows to improve operational efficiency.

AI Engineering Intern **May 2025 – June 2025**
GSPEC TECH *Lahore, Pakistan*
- Developed a scalable chatbot creation system for organizations using OpenAI's LLM, Flask, Pinecone, and MySQL.
- Engineered a document-based QA system processing 4,441+ text chunks from diverse formats (PDF, TXT, CSV, DOCX, MD, HTML, JSON).
- Used HuggingFace's `all-MiniLM-L6-v2` to generate 384-d embeddings and implemented semantic search via Pinecone.
- Integrated LangChain to enable context-aware, 3-sentence responses with a 3-document retrieval window and temperature-controlled generation.
- Showcased expertise in vector databases, document preprocessing, and scalable, domain-specific LLM-powered systems.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, R
Tools: VS Code, Google Colaboratory, MSSQL Server, Jupyter Notebook, MS Excel, Power BI, Anaconda, Git
Technologies/Frameworks: Linux, GitHub, WordPress, Flask, Streamlit, Docker, FastAPI
AI/ML Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Matplotlib
Other Skills: REST APIs, Model Training & Evaluation, Data Preprocessing, Feature Engineering, Hyperparameter Tuning, Model Deployment, Data Visualization

Projects

Distance Matrix Optimization | *Google Sheets, Google Apps Script, Google Maps API* **March 2025**
- Developed a script to fetch real-time distance and travel time between 15 sources and 500 destinations, using Google Maps API.
- Optimized routing based on weight constraints, minimizing travel costs for logistics planning.
- Automated data fetching and visualization in Google Sheets, highlighting key insights for decision-making.

Certifications

Google Data Analytics Professional Certificate **Aug 2023 – Dec 2023**
Coursera
- Acquired hands-on experience in data cleaning, ensuring data integrity, and maintaining data quality.
- Developed expertise in database management systems (DBMS) and Microsoft Excel for data analysis.
- Learned R programming, Power BI, and SQL for data visualization and reporting.

Leadership / Extracurricular

President, IEEE NUCES Lahore **Aug 2024 – Present**
FAST-NU, Lahore, PK
- Built and led a team of 50+ members to revamp and expand the society.
- Organized a cybersecurity workshop with an audience of 100+ participants.
- Implemented structural improvements to enhance operational efficiency and outreach.