

Fahira Hameed

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<https://fahiramaricar.github.io/portfolio/>

Data Analyst

Proficient in Python, SQL and data visualization tools. Adept at managing survey research and analyzing complex datasets. Possessing a strong background in designing and developing AI tools, consistently delivering impactful solutions. Excellent interpersonal and communication skills for effective collaboration at all levels.

Skills

Programming languages: SQL, Python, R, Javascript, C++, Java, HTML, CSS

Tools: PowerBI, Tableau, Excel Charts, Microsoft Powerpoint, Microsoft Visual Studio, AI Libraries & Frameworks

Database: MySQL, SQLite, Microsoft SQL Server

Additional Tools: Github, Dagshub, Google Colab, Jupyter Notebook, Google Cloud Platform

Experience

Artificial Intelligence Engineer : RadicalAI

Mar'24-Present

- Implemented an AI Teaching Assistant using OpenAI and Google Gemini to automate educational tasks such as lesson planning, content creation, and assessment management, enhancing support for educators.
- Developed an AI tool with LangChain libraries, Google Gemini, Vertex AI, and Streamlit to automate quiz generation from PDF documents, improving quiz creation efficiency by 80% through semantic content extraction and Chroma collections.
- Created an educational application with FastAPI, Vertex AI, and React to generate flashcards from YouTube video transcripts, using advanced AI for text summarization and concept extraction enhancing student engagement and learnings.

Data Analyst : Omdena

Jan'24 - Mar'24

- Conducted an extensive analysis of the relationship between social media usage and mental health outcomes, through developing an LLM chatbot with RAG base, aimed at detecting depression and anxiety.
- Led global data collection efforts, ensuring privacy and integrity, while utilizing Natural Language Toolkit (NLTK) in Python for preprocessing and analysis to prepare insights for subsequent modeling
- Leveraged machine learning algorithms, specifically XGBoost classifier model for text classification, achieving 93% accuracy in predicting mental health conditions, enhancing chatbot precision.

Projects

HR Data Analysis for ATLIQ Technologies

Nov'24-Jan'24

- Automated the work of HR creating visualizations by extracting meaningful insights and trends, utilizing a real dataset from ATLIQ Technologies.
- Analyzed on various parameters to give a proper insights and trends into the requirements mentioned by HR using power query editor and DAX expressions.
- Created a powerful dynamic powerBI dashboard for the HR to analyze the working preference of the employees increasing efficiency by 50%.

TATA Data Visualization: Empowering Business with Effective Insights

Sep'23-Dec'23

- Performed data cleaning using Excel and developed a dashboard using Tableau, gathering requirements for TATA Consultancy Services, monitoring, maintaining growth and engagement metrics facilitating effective decision-making for senior leadership.
- Developed new data exports according to identified business needs and requirements, leading to 30% improvement in data-driven insights generated from these exports.

Education

Avvaiyar Government College for Women

- Bachelor's Degree - Computer Science

Certifications

- Google Data Analytics
- SQL Essential Training
- NLP with Python for Machine Learning Essential Training