

# Mohammad Afzal

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Karachi

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## Objective

Enthusiastic computer science graduate skilled in Data Science, ML, statistical analysis, and visualization. Seeking Data Scientist/ML role.

## Work Experience

### • Jr. Artificial Intelligence Engineer - Cygnis Media Karachi

– September 2023 - Present

- \* Collaborated with developers to integrate AI into products, enhancing user experiences.
- \* Developed a customer support chatbot, fine-tuning Google Gemma-2B on customer support conversation data.
- \* Integrated LangChain multi-agents and custom tools from OpenAI to handle customer queries about delivery and other details.
- \* Utilized prompt engineering techniques for Large Language Models (LLMs) to optimize customer query conversations.
- \* Employed Pinecone, Chromadb, and FAISS as embedding stores for the semantic search of customer queries and responses.
- \* Implemented a Knowledge Graph for entity and relationship identification, incorporating OpenAI's GPT-3 and GPT-4 APIs.
- \* Utilized FastAPI for efficient API endpoints, facilitating and managing PostgreSQL and MySQL database integration.

### • Machine Learning Engineer - Fiverr

– Feb 2022 - Present 2023

- \* Next Word Prediction using deep learning and CNNs + LSTM. Acquired extensive knowledge about various ML/DL models.

### • AI Intern — FasTech Systems

– Jun 2023 - Aug 2023

- \* Lung Cancer Detection via Image Segmentation. Refined methodologies for accurate results.

## Education

### Sukkur IBA University

BS Computer Science (Aug 2019 - Jul 2023)

## Technical Skills

- Data Science, NLP, Deep Learning, LLM, NLP, Transformer, BERT, GPT, LangChain
- Languages: Python, R, Java, C/C++, Spark
- Data Visualization: Tableau, Power BI, Plotly, Seaborn, Pyecharts,
- Databases: MySQL, MongoDB, PostgreSQL, Pinecone, FAISS
- Web Development: HTML, CSS, Flask, Django

## Projects

- **Live Music Recommendation System** - Spotify API, content-based and popularity-based hybrid approach.
- **Twitter Sentiment Analysis** - Python, Tweepy API, TextBlob, NLTK.
- **FYP: Employee Emotion Detection** - CNNs & LSTMs, real-time emotion classification.

## Certificates

- Associate Data Scientist (DataCamp)
- Microsoft Office Certified (Microsoft)
- Machine Learning for Business (Datacamp)

## Achievements

- Sumo Robo War 2nd Runner-up, 2023
- Math Olympiad Competition Winner, 2019