MOHMMAD AKEEB

AI/ML | Data Science | Software Engineer

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EXPERIENCE

Underwater AI R&D Intern

IIT Jammu

Dec 2025 – Feb 2026 **Onsite**

- **Improved** target bearing detection of enemy ships by **13%** through **AI-driven** sonar noise reduction.
- **Optimized** model efficiency by reducing **FLOPS** from **19B** to **5B** using **SVD** and rectangular **CNN**.
- **Implemented** custom loss function to **improve** model **F1-score**.

AI / ML Intern

Ministry of MSME

Nov 2024 – Jan 2025 **Onsite**

- **Developed** and **deployed** an **AI chatbot** handling **150 daily interactions**, automating order processing
- **Improved** response relevance by **32%** across **6 AI modules** by implementing **RAG**.
- **Built** a cross-platform mobile AI chatbot using **React Native**, integrated with **Firebase** and **RunPod-hosted LLM APIs**.

Fog Computing R&D Intern

Multicriteria Scheduling for Fog Nodes

Agu 2024 – Oct 2024 **Academic**

- **Implemented** a Fog Computing task scheduling algorithm in Python for heterogeneous fog networks.
- **Compared** performances with **FCFS**, **SJF**, **LJF**, and **PGA** (Priority-Aware Genetic Algorithm) across multiple experiments.
- **Wrote unit tests** using **Pytest** to fix bugs and improve test coverage for all modules.
- **Achieved** improved performance metrics such as makespan, latency, resource utilization over baseline algorithms.

EDUCATION

B.Tech. (CSE) - 8.42 CGPA

Central University of Kashmir

2022 – 2026 Ganderba, Kashmir

LEADERSHIP EXPERIENCE

President | CodeSquad

- Spearheaded technical initiatives and organized coding workshops for the student community.
- Mentored peers in full-stack development and open-source best practices.

Lead | AI/ML Club

- Directed club activities, including study jams and hands-on model training sessions.
- Guided student teams in building projects using Python, TensorFlow, and Scikit-learn.

TECHNICAL SKILLS

- **Languages:** Python , SQL, Java, JavaScript
- **AI & GenAI:** Hugging Face, TensorFlow, PyTorch, RAG, Agentic AI
- **Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Bokeh
- **Web & Tools:** Git, Docker, Fast APIs, React.js, Flask, Streamlit
- **Core Concepts:** Data Structures, Algorithms, Machine Learning, Deep Learning

PROJECTS

Image caption Generation

- **Python | Tensorflow | Scikit-learn | Stremlit**
- Built an **image captioning system** using **VGG16** and **LSTM** to generate captions from images.
- Integrated **image preprocessing, tokenization, and sequence prediction** for accurate caption generation.
- Developed a **Streamlit app** with **text-to-speech** for real-time image captioning.

[GitHub]

Customer Churn Prediction

- **Python | Scikit-Learn | FastAPI | Pandas**
- Built a **Customer Churn Prediction system** achieving **95.86% accuracy** using **Random Forest**, outperforming Decision Tree baselines.
- Engineered a **data preprocessing pipeline** for **21 features** using **OneHotEncoder, StandardScaler**, and **ColumnTransformer**.
- Deployed a **production-ready FastAPI application** with **dark-mode UI** for real-time churn risk prediction.

[GitHub]

Olympics Data Analysis

- **Python | Streamlit | Pandas | Plotly | Seaborn**
- Developed an interactive **Olympics Data Analysis Dashboard** visualizing **120 years of historical data** using **Streamlit**, facilitating granular analysis of athlete performance and country achievements.
- Engineered a robust **data preprocessing pipeline** with **Pandas** to handle missing values and duplicates, implementing **OneHotEncoding** to accurately aggregate medal statistics.
- Designed advanced visualizations including **Heatmaps, Scatter Plots**, and **Distribution Charts** using **Plotly and Seaborn** to identify correlations between **athlete demographics** and performance across different sports.

[GitHub]