

# MOHAMMAD AKEEB

AI/ML | Data Science | Software Engineer

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📍 Bengaluru, India

in [Linkedin](#)

github [Github](#)

portfolio [Portfolio](#)

## EXPERIENCE

### Underwater AI R&D Intern

IIT Jammu [↗](#)

📅 Dec 2025 – Present 📍 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 | Streamlit
- 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] [↗](#)