

ARSHAD MULLA

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EDUCATION

Royal College of Arts, Science and Commerce (University of Mumbai)

Bachelor of Science, Computer Science

Jun 2021 – May 2024

EXPERIENCE

Technical Program Analyst – AI & Data | Growfitter (GoToUniversity)

Sep 2025 – Present

- Automated large-scale management of a 1K+ global university program database using AI workflows.
- Improved data reliability by 40% through advanced prompt-engineering with ChatGPT and Perplexity.
- Researching academic data structuring and scalable knowledge integration for intelligent web systems.

AI Researcher (Freelance) | TheSoul Publishing

Aug 2025 – Present

- Designed NLP-based detection models for AI-generated content, improving language authenticity by 25%.
- Analyzed human-AI co-creation pipelines; contributing to a paper-in-progress on *Human-AI Collaboration in Creative Media*.

AI Research Intern | XLEX Batteries

Aug 2025 – Sep 2025

- Led a 4-member team to develop a Retrieval-Augmented Generation (RAG) chatbot, reducing internal query time by 45%.
- Integrated vector search, embedding models, and response-ranking algorithms for domain-specific Q&A optimization.

Data Annotation Specialist (Freelance) | Outlier.ai

Jan 2025 – Aug 2025

- Labeled and validated text, image, and video datasets for NLP and computer vision applications.
 - Improved annotation precision and consistency, enhancing model performance and QA standards.
 - Refined labeling protocols with data scientists, boosting throughput and minimizing rework rates.
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PROJECTS

Accelerated NLP Inference Research: CPU vs MPS vs Mixed Precision

Oct 2025

- Replicated and extended Dr. Forrest Bao's DLBoost vs CUDA BERT study to analyze Transformer inference on CPU, Apple MPS and FP16.
- Benchmarked BERT, DistilBERT and RoBERTa under varying batch sizes and sequence lengths to quantify latency and efficiency.
- Visualized performance trade-offs and documented practical optimizations for hardware-aware NLP deployment.

AI Software as a Service Image Platform

Feb 2024 – Apr 2024

- Developed an AI Image SaaS platform using Next.js, MySQL and Cloudinary with 95% accuracy in background removal.
- Integrated object segmentation (Shadcn) to improve precision by 20% and reduce processing time by 30%.
- Implemented Stripe payments, increasing premium subscriptions by 15%.

Stock Price Prediction Web App (Streamlit)

Jun 2023 – Dec 2023

- Built an LSTM model achieving 90% accuracy in forecasting stock prices using time-series analysis.
- Created a real-time API pipeline reducing prediction errors by 15% and enhancing model timeliness.

- Deployed on cloud for scalable access, increasing user engagement by 20%.

Robot Navigation System

Aug 2023 – Dec 2023

- Engineered a robot navigation algorithm using computer vision and sensor fusion, boosting path accuracy by 30%.
 - Applied reinforcement learning for autonomous decision-making, raising efficiency by 25%.
 - Reduced latency by 20% and improved operational speed by 15%.
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TECHNICAL SKILLS

- **Data Analysis & Statistics:** Matplotlib, Seaborn, Tableau, Power BI, MS Excel, Jupyter Notebook, Google Colab, Kaggle, Time Series Analysis, NLP, LSTM, Data Mining, Statistics, Data Management
 - **Tools & Technologies:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, SaaS, RAG, Vector Search, Embedding Models, Prompt Engineering
 - **Programming & Databases:** Python, R, SQL, MySQL, JavaScript, AWS
 - **Soft Skills:** Research Writing, Team Leadership, Cross-Functional Collaboration, Communication
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CERTIFICATIONS

- Python for Machine Learning – Great Learning (Oct 2023)
- Introduction to Deep Learning – Great Learning (Apr 2023)
- Introduction to Data Science – Great Learning (Aug 2022)
- Research Presenter – Avishkar 2023 (Robot Navigation Project) – Dec 2023