MUNEEB AZFAR NAFEES

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EDUCATION

BA in Computer Science (Artificial Intelligence) and Mathematical Science │ *Colby College, Waterville, ME*   **Aug 2024 - May 2028**
(Expected)
- Minor in **Statistics**
- **GPA**: 4.15 (Cumulative)
- **Awards:** Bixler Scholar (2024-2025), Dean's List (Fall 2024, Spring 2025, Fall 2025), Presidential Scholar
- **Relevant Coursework:** Comp Think: Nat Lang Proc, Series/Multivariable Calculus, Data Structures and Algorithms, Linear Algebra, Intro to Stats, Programming Languages

Cambridge International AS & A Levels │ *Cedar College, Karachi, Sindh*   **Aug 2022 - Jun 2024**
- **GPA:** 4.33 (Valedictorian)
- **Awards:** Cedar Leadership Award, Cedar Knight Awards, 1st in Pakistan for Cambridge International A Levels Information Technology

PROJECTS

Cryptocurrency Price Predictor │ *GitHub*
- *Skills Used*: Python, Pandas, CoinGecko API, scikit-learn
- *Description*: Devised ML and DL models that predict prices for 23 cryptocurrencies using historical data and technical indicators. Visualized performance metrics in a dashboard-style report.

Monte-Carlo Simulation: Stocks │ *GitHub*
- *Skills Used*: Python, Monte Carlo Method, Yahoo Finance
- *Description*: Built a Monte Carlo portfolio simulator that fetches historical prices, estimates returns/covariances, simulates correlated future paths, and reports risk/return stats (percentiles, VaR/CVaR, drawdowns).

PGF Plot Generator for LaTeX │ *GitHub*
- *Skills Used*: Python, LaTeX, SymPy
- *Description*: Created a script to generate TikZ/PGFPlots code for dynamic plotting in LaTeX. Used by peers to simplify visualizations in math reports.

Sentiment Analysis Model │ *GitHub*
- *Skills Used*: Python, Natural Language Processing (NLP), Machine Learning
- *Description*: Developed a model trained on 40,000 IMDB reviews to accurately predict review sentiment.

WORK EXPERIENCE

Linear Algebra Teaching Assistant, Colby College │ Waterville, Maine   **Sep 2025 - Present**
- Lead weekly help sessions to support student learning, fostering collaboration and conceptual understanding.
- Grade assignments with a focus on consistency, fairness, and detailed feedback for conceptual clarity.
- Hold one-on-one support meetings to reinforce foundational concepts and study strategies.
- Coordinate with faculty to refine support strategies and align on academic expectations.

Student Research Assistant, Colby College │ *Waterville, Maine*   **Aug 2025 - Present**
- Enhancing the MultiSOCIAL Toolbox, an open-source platform for analyzing multimodal human interactions across text, audio, and video.
- Implementing Python modules for video-to-audio conversion, pose estimation (MediaPipe), speech feature extraction (OpenSMILE), and transcription (Whisper).
- Optimizing processing pipelines for keypoints and speech features to ensure consistent performance across diverse input formats.
- Collaborating with researchers to align development with computational social science goals and validate application functionality across modalities.

ML Engineering & MLOps Intern, LegaCAI │ Remote   **Jul 2025 - Sep 2025**
- Built web-based AI tools using React, FastAPI, and OpenAI APIs, supporting real-time user interaction.
- Integrated backend services and model deployment pipelines for production-ready workflows.
- Participated in agile development cycles, contributing to code reviews, iterative releases, and feature planning.
- Enhanced API performance and UI responsiveness to improve system usability.
- Collaborated across time zones using async workflows and version-controlled development environments.

Machine Learning Intern, SureStart │ *Waterville, Maine*   **May 2025 - Aug 2025**
- Completed a 10-week intensive training in machine learning and deep learning using Python and TensorFlow.
- Developed and optimized neural networks, enhancing their performance for real-world applications (e.g., image or text classification).
- Participated in entrepreneurship courses and gained insights into launching AI-driven startups.
- Engaged with industry leaders to explore practical AI applications, focusing on scalability and integration.

Artificial Intelligence Research Intern, Authentik Track and Trace │ *Karachi, Pakistan*   **Dec 2024 - Jan 2025**
- Conducted unit and regression testing on NLP pipelines to ensure model stability across multiple use cases.
- Developed and maintained internal documentation for machine learning workflows.
- Wrote Python scripts to support automation and integration tasks for AI models.

SKILLS

- **Technical Skills:**
  - *Languages*: Python, Java, TypeScript, C, R
  - *Libraries/Frameworks*: Matplotlib, NumPy, Pandas, scikit-learn, TensorFlow, React, FastAPI
  - *Tools*: Jupyter, Git, Notion
- **Soft Skills**: Project Management, Team Collaboration, Customer Service, Leadership