Niraj Jaishwal

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OBJECTIVE

Motivated Computer Science and Applied Mathematics enthusiast with a strong foundation in Machine Learning, Statistical Analysis, and Data Engineering, seeking to apply analytical skills and technical expertise to drive data-driven decisions and innovation.

EDUCATION

University of Akron, Akron, OH   **Expected Graduation: Dec 2025**
Bachelor of Science in Computer Science   **GPA: 3.842/4.0**
Bachelor of Science in Applied Mathematics with Focus in Data Science (Dual Major)
Minor in Statistics

Honors: President's List (Spring 2022, Fall 2024, Spring 2025), Dean's List (Fall 2022 – Spring 2024)

EXPERIENCE

Entrepreneurial Programs Intern, University of Akron Research Foundation (Akron, OH)   June 2024 – Present
- Independently created and maintained I-Corps dataset of 1,000+ teams (2013–present), covering all participants to track grants, assess program outcomes, and support NSF reporting.
- Managed backend operations for 45+ teams per cohort in Basecamp and coordinating profiles for 130+ instructors and participants per cohort, ensuring seamless program execution.
- Optimized tasks like certificate creation, reporting, and data management using Python scripts, VBA macros, mail merge and Excel functions, boosting efficiency and reducing manual work by more than 50%.

Student Technical Support Analyst - Information Technology Services, The University of Akron (Akron, OH)   April 2024 – Present
- Provide technical support to students, faculty and staff by resolving hardware, software, accounts and network issues through in-person, and phone using Microsoft Azure and Microsoft Intune.
- Maintain 20+ loaner laptops by performing routine maintenance, software updates (e.g. Microsoft Suite, Adobe), reimaging and hardware configurations, ensuring 100% readiness for checkout.
- Document technical issues and solutions in the ticketing system, creating clear and detailed records to improve future troubleshooting and reduced resolution times by 15%.

Student Supervisor - Bierce Library at The University of Akron (Akron, OH)   April 2022 – Present
- Manage library operations during non-staff hours, ensuring a secure and efficient environment for patrons.
- Provide in-depth guidance to patrons on utilizing both physical and digital resources like databases and the university catalog.
- Troubleshoot and resolve technical issues with library equipment minimizing disruptions for patrons.

SKILLS

Languages	Python, R, SQL, JavaScript, C++, C#, HTML, CSS
Technologies	PyTorch, TensorFlow, PowerBI, Flask, Minitab, SAS, SPSS, Git, VS Code, Visual Studio, StatCrunch
Traits	Critical Thinking, Time Management, Problem-Solving, Adaptability

PROJECTS

Telecommunication Customer Churn Prediction
- Built a Decision Tree Classifier using scikit-learn on 7,000+ telecom records, achieving 80% accuracy and deploying it via Flask API for an interactive web interface.
- Developed predictive models (CART, CHAID, Exhaustive CHAID, Logistic Regression) in SPSS, achieving up to 80% accuracy.
- Performed EDA, feature engineering, and hyperparameter tuning to improve model performance and interpretability.

Smartphone Market Analysis: A Comparative Study of Apple and Samsung Brands Phones
- Conducted in-depth analysis of factors influencing selling prices for Apple and Samsung phones, analyzing over 3,000+ data points to identify key trends and pricing patterns.
- Led data analysis and developed regression models using pandas, NumPy, scikit-learn, and statsmodels, achieving 90% accuracy in predicting selling prices.
- Created visualizations using matplotlib and seaborn, effectively communicating insights to provide actionable recommendations.

Stock Price Analyzer using LSTM
- Developed a Deep Learning model using LSTM with extensive feature engineering, creating six technical indicators (MACD, RSI, ATR, etc.) to enhance stock price movement predictions.
- Applied CrossEntropyLoss and holdout validation, optimizing hyperparameters for better model generalization and evaluation.
- Deployed the model via Flask API, automating data processing and execution using Bash scripting.

EXTRACURRICULAR ACTIVITIES & CERTIFICATIONS

- Mathematics Tutor
- Treasurer of Everest Student Nepalese Organization
- William Honors College Peer Mentor
- Member of Alpha Lambda Delta
- IBM Machine Learning with Python (Coursera)
- Google Data Analytics (Coursera) - In Progress

Availability: Dec 2025 (Full Time)