

Arnav Kucheriya

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PERSONAL SUMMARY

A goal-oriented, experienced, and detail-oriented Computer Science student with a strong foundation in machine learning, data science, and software development. Passionate about solving real-world problems using AI-driven solutions and automation. Experienced in collaborating with research teams and industry professionals to build scalable and efficient systems. Looking for opportunities to apply technical skills and analytical abilities in innovative projects.

EDUCATION

New Jersey Institute of Technology (NJIT)

B.S. Computer Science, Applied Statistics

- Dean's List Scholar, Highlander Achievement Scholar, Upkar (IACF) Achievement Scholar

Sep 2023 – May 2027

Newark, NJ

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant

New Jersey Institute of Technology (NJIT)

- Engineered machine learning models for real-time solar radio burst detection, enhancing space weather prediction.
- Preprocessed large datasets with Pandas, NumPy, and Scikit-learn, ensuring data readiness and model reliability.
- Validated predictive models and contributed to research publications, utilizing TensorFlow for optimized analytics.

Jun 2024 – Present

Newark, NJ

AI Technology Intern

Isotropic Solutions Inc

- Collaborated with the Central Bank of Oman (CBO) to deploy an ML-driven HR recruitment system, reducing screening time by 50%.
- Designed an automation pipeline for Vietnam's State Bank, improving transaction efficiency by 30%.
- Built a REST API using FastAPI and PostgreSQL to streamline data storage and ML model integrations.

Sep 2024 – Feb 2025

New York City, NY

Database Automation Engineer Intern

JEI Learning Centers, LLC

- Automated ETL processes with Python, Django, and PostgreSQL, reducing processing time by 40%.
- Synchronized multi-platform databases, ensuring 100% data accuracy and integrity.
- Integrated user data with marketing platforms (Keap, Hi-Sawyer, Wix), increasing campaign targeting efficiency.

Jan 2024 – Aug 2024

Jersey City, NJ

PROJECTS

Market Prediction with Machine Learning | *Python, yfinance, Pandas, Matplotlib*

- Developed a financial modeling and analysis tool to predict stock prices using machine learning algorithms.
- Utilized Python libraries like Pandas and NumPy for data preprocessing and feature engineering.
- Implemented and optimized models such as linear regression and decision trees to analyze market trends.
- Visualized results using Matplotlib to deliver actionable insights for investment strategies.

Google Workspace Chatbot | *Python, TensorFlow, Pandas*

- Trained chatbot using TensorFlow to enhance continuous learning and adaptability.
- Developed NLP capabilities for real-time query resolution, improving response time and efficiency.
- Designed and deployed an interactive AI chatbot that automated routine IT tasks, resulting in an annual savings of 800 hours previously spent on manual ticket handling within the help desk department.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Rust.

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI.

Developer Tools: Git, Docker, Microsoft Office, MS Excel, Google Cloud Platform, VS Code, PyCharm, IntelliJ. **Libraries:** pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Streamlit, Django, yfinance.

CERTIFICATIONS

AWS Cloud Practitioner: In Progress

Google Cyber Security: Google

Python Programming: OpenEDG Institute

Generative AI Fundamentals: Microsoft