Mitansh Maheshwari

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SUMMARY

I am a junior student at ASU, proficient in Java, Python, C, C++, R, SQL and JavaScript, with a strong focus on automating processes, developing complex algorithms, and applying data science techniques. Experienced in data wrangling, machine learning, and natural language processing. Demonstrated leadership and problem-solving skills as an Engineering Peer Mentor, where I supported peers in technical challenges and fostered collaboration. Committed to leveraging technical expertise and hands-on experience to drive innovation and excellence in computer science.

EDUCATION

Bachelor of Science in Computer Science   **May 2026**
Arizona State University   **Tempe AZ-85281**
- Minor in Data Science

SKILLS

- **Programming Languages –** Java, Python, C, C++, SQL, R | **Web development –** HTML, CSS, JavaScript
- **Frameworks –** Pandas, NumPy, Scikit-learn, TensorFlow, NLTK, Matplotlib, Seaborn, React, Node.js
- **Tools -** Jupyter Notebooks, Apache Spark, Git, GitHub, VS Code, IntelliJ, PyCharm, Tableau
- **Coursework –** Object-Oriented Programming, Data Structures and Algorithms, Digital Design, Computer Architecture and Assembly Language, Data analysis in R, Information Assurance
- **Certifications –** IBM Data Science Professional Certificate
- **Experience** – Data wrangling, model building, debugging, and performance tuning
- Strong problem-solving, analytical abilities, leadership, teamwork and communication skills

PROJECT EXPERIENCE

Sentiment Analysis of Amazon Product Reviews (Python, NLTK, Scikit-learn, Matplotlib)   **Spring 2024**
Conducted a sentiment analysis project on Amazon product reviews for electronics, utilizing natural language processing techniques to extract insights and assess customer sentiment. Employed libraries such as NLTK and Scikit-learn to preprocess text data, build classification models, and visualize results. This project demonstrated my ability to apply data science methodologies to real-world datasets and extract actionable insights from customer feedback.

Inventory Management System (Python, SQL, Tkinter)   **Spring 2024**
Created a Python-based inventory management system that efficiently tracks product quantities, manages orders, and generates detailed reports. Implemented features such as user authentication, real-time inventory updates, and data visualization, enhancing user experience and operational efficiency. This project reinforced my skills in database management (using SQL) and user interface design.

Procedural World Generation (C++, STL, Data Structures)   **Fall 2023**
A C++ program was constructed using the dirtball dropping technique for procedural world generation, displaying skills in C++, data structures (arrays), and randomization. This project resulted in the creation of dynamic and realistic virtual worlds, emphasizing creativity and algorithmic skills.

Discord AI Bot (Python, OpenAI API, Discord API)   **Fall 2023**
Engineered a Python bot for Discord that uses the OpenAI API to perform arithmetic calculations and answer user queries. Integrated with the Discord API, the bot provides real-time responses and customizable commands, showcasing skills in Python programming and chatbot development.

OTHER EXPERIENCE

Engineering Peer Mentor   **August 2023 - Present**
Arizona State University   **Tempe, AZ-85281**
- Supported mentees' learning and development by sharing resources, opportunities, and activities.
- Utilized tools like Salesforce and Microsoft Office for customer management, data analysis and creating professional presentations.
- Facilitated open communication among mentees through peer-to-peer conversations and group discussions.
- Organized engineering-focused events to foster knowledge sharing and networking within the student community.

Database Management Assistant   **March 2022 - July 2022**
Balaji Traders   **Bhopal, India**
- Managed and maintained database records, ensuring high levels of accuracy and operational efficiency.
- Troubleshot database issues and assisted in optimizing performance to improve system reliability.
- Led the digitization process by converting physical records into a newly implemented database system.