MITANSH MAHESHWARI

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SUMMARY

Senior Computer Science student at ASU with strong foundation in software engineering principles. Experience in full-stack development(React, TypeScript, Node.js, FastAPI), data science(NLTK, Scikit-learn, Py-Torch) and automation(bash, python). Developed projects include sentiment analysis, inventory manager, and AI-Powered applications. Demonstrated leadership, communication, and problem solving abilities as an engineering peer mentor

EDUCATION

B.S. Computer Science **Graduating May 2026**

Arizona State University, Tempe, AZ

Minor: Data Science

Relevant coursework: Principles of Programming Languages, Distributed Software Development, Database Management, Foundations of Machine Learning, Operating Systems, Computer and Network Forensics, Data Structures

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C, C++, JavaScript, TypeScript
Frameworks & Libraries: React, Next.js, Node.js, Express.js, FastAPI, Flask, Tailwind CSS, Bootstrap, Pytest
Databases & Cloud: MongoDB, MySQL, PostgreSQL, SQLite, AWS, MongoDB Atlas
Machine Learning & NLP: Scikit-learn, NLTK, Pandas, NumPy, TensorFlow, Matplotlib, Seaborn
Certifications: IBM Data Science Professional, MongoDB Associate Developer, Alteryx Designer Core

ACADEMIC PROJECTS

AI-Powered News Dashboard Summer 2025

Developed a full-stack AI-driven platform to aggregate and summarize news articles using Google's Gemini API.

- Engineered a React/TypeScript frontend with Tailwind CSS, implementing responsive design.
- Developed Python/FastAPI backend service integrated with Gemini API for automated article summarization.
- Designed MongoDB database architecture for efficient storage and retrieval of news articles.
- **Technologies:** React, TypeScript, Tailwind CSS, Python, FastAPI, MongoDB, Gemini API

Sentiment Analysis of Amazon Product Reviews Fall 2024

Built an end-to-end sentiment analysis pipeline to process and analyze over 3 million Amazon product reviews.

- Engineered text preprocessing pipeline with NLTK: tokenization, lemmatization, and feature extraction
- Applied VADER sentiment analyzer to compute sentiment scores from customer reviews
- Visualized sentiment trends across product categories using matplotlib and seaborn
- **Technologies:** Python, NLTK, VADER, matplotlib, seaborn

Inventory Management System Spring 2025

Built a full-stack inventory management platform with FastAPI backend and React/TypeScript frontend.

- Developed RESTful APIs with FastAPI and SQLAlchemy, supporting inventory, user roles, and reporting features
- Implemented role-based access control, JWT authentication, and low-stock alerts with supplier management
- Designed responsive React UI with Material UI and Chart.js for real-time inventory analytics
- **Technologies:** Python, FastAPI, SQLAlchemy, React, TypeScript, JWT, SQLite

OTHER WORK EXPERIENCE

Arizona State University, Tempe, AZ: Engineering Peer Mentor Aug 2023 – Present

- Mentored first-year engineering students through academic guidance, resource access, and personal support.
- Led and organized technical workshops and events to promote student engagement and skill development.
- Utilized Microsoft Office and Salesforce to manage communications and track mentee progress.

ACTIVITIES

ASU Sustainability Eco-Representative Aug 2024 – Present

Organized campus-wide events and outreach campaigns to promote sustainability, actively engaging 500+ students in eco-friendly practices. Supported major university-wide green initiatives through volunteer work and peer engagement.