Aayushi Malhotra

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WORK EXPERIENCE

ERICSSON Cloud Computing Intern May 2024 – July 2024

- Facilitated in the implementation of a Kubernetes-based microservices architecture on Google Cloud Platform (GCP), contributing to a 25% increase in system scalability.
- Directed the optimization of data pipelines using Apache Beam and Google Cloud Dataflow, enhancing data processing speed by 30%.
- Strengthened cloud deployment security by integrating Google Cloud IAM roles and policies, reducing security incidents by 20%.

INNEFU LABS Data Analyst Intern Gurgaon, India | May 2023 – July 2023

- Collaborated on developing machine learning models using TensorFlow for anomaly detection, improving threat identification accuracy by 20%.
- Streamlined data ingestion and preprocessing pipelines using Apache Spark, handling large volumes of cybersecurity data and reducing processing time by 25%.
- Engineered real time dashboards using Python and Streamlit, providing actionable insights to stakeholders and reducing decision-making time by 30%.

BYTEBLANKET Machine Learning Intern Dubai, UAE | May 2022– July 2022

- Designed and deployed a Sentiment Analysis Model using spaCy and Python, increasing customer support efficiency by 35% and automating over 50% of inquiries, reducing response time by 30%.
- Built a customized NLP pipeline for processing support inquiries, improving response accuracy and relevance by 40%, and enhancing customer satisfaction and team productivity.

PROJECTS

AI POWERED FASHION RECOMMENDATION ENGINE: Formulated an AI-powered fashion advisor using Python, TensorFlow, React, and AWS; processed 1000+ wardrobe images with OpenCV, integrated fashion APIs, and applied color theory to provide personalized outfit recommendations based on trends and user preferences.
SENTIMENT ANALYSIS BOT: Developed an AI-driven sentiment analysis chatbot using Python, Flask, NLTK, and TextBlob; crafted a responsive web interface that processed over 1,500 user interactions with personalized emotional feedback within real-time constraints.

SKILLS

Programming Languages: Python, SQL, Java, C++, JavaScript, PHP, R, Bash, MATLAB
Machine Learning & Data Science: TensorFlow, Keras, Scikit-Learn, spaCy, NLTK, OpenCV, Pandas, NumPy, Apache Spark, Apache Beam, TextBlob
Cloud & DevOps: Google Cloud Platform (GCP), AWS, Microsoft Azure, Kubernetes, Docker, Google Cloud Dataflow, Google Cloud IAM
Web Development & Frameworks: React, Flask, Streamlit, Django, Node.js, HTML/CSS, Git

EDUCATION

MICHIGAN STATE UNIVERSITY East Lansing, MI Expected May 2026
Bachelor of Engineering - Major in Computer Science; Minor in Cognitive Science

ACTIVITIES

Student Analyst, MSU IT: engineered Python ETL pipelines to extract and normalize TeamDynamix ticket data via REST APIs into a PostgreSQL warehouse; crafted advanced SQL, Pandas scripts for trend analysis and anomaly detection; built Grafana dashboards for real-time monitoring and automated Airflow workflows—cutting mean resolution time by 25%.
Undergraduate Research Assistant, MSU Social Science: developed Python deep-learning models using TensorFlow on high-dimensional datasets, generating actionable insights to drive interdisciplinary studies.
Resident Assistant, MSU Housing: led community-building events, mediated conflicts, and coached residents in leadership.
Mentor, Women in Computing Program: guided mentees through full-stack projects, introduced AI tools, and fostered inclusivity.