

SAMARTH KUMAR

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Education

Auburn University

Aug. 2024 – Dec. 2025

Master of Science in Data Science and Engineering

Auburn, AL

- Cumulative GPA: 3.83
- Relevant Coursework: Artificial Intelligence, Database Systems, Data Mining

Auburn University

Aug. 2020 – May 2024

Bachelor of Science in Computer Science

Auburn, AL

- Graduated Cum Laude with a GPA of 3.57

Technical University of Applied Sciences Wuerzburg-Schweinfurt

Mar. 2023 – Jul. 2023

Semester Exchange Program, Computer Science

Wuerzburg, Germany

- Completed coursework in Linux/Unix Systems, IT Security, and Software Engineering.
- Acquired German proficiency through an intensive language course.

Projects

Convolutional Neural Networks for Image Style Transformation

Nov. 2024

- Developed a convolutional neural network (CNN) model that blends the content and style from different images, inspired by Gatys et al.'s research.
- Leveraged a pre-trained VGG-19 model to extract content and style features for image generation.
- Configured a deep learning pipeline using TensorFlow/Keras to optimize the model's performance.

Twitter Sentiment Analysis Using Natural Language Processing (NLP)

Apr. 2024

- Performed sentiment analysis on a dataset of 400k text samples from Twitter through NLP techniques, including tokenization and stop word removal.
- Implemented machine learning algorithms such as Logistic Regression and Multilayer Perceptron, achieving an overall accuracy of 87%.
- Utilized Python libraries such as Matplotlib, Seaborn, NumPy, Pandas and scikit-learn for handling data, model implementation, hyperparameter tuning, and visualization.

Experience

Cirrus Aircraft

May 2024 – Aug. 2024

IT Systems Intern

Duluth, MN

- Developed an application to automate email reminders for renewing 80+ software license subscriptions, reducing manual effort by 50%.
- Cleaned and transformed data from several sources to create interactive Power BI reports.
- Initiated the migration process of legacy business applications by consulting stakeholders across various departments and gathering critical information.
- Acquired foundational knowledge of cloud computing and the Microsoft Azure platform, successfully obtaining the AZ-900 certification in the process.

OCV, LLC

Sept. 2022 – Dec. 2022

Software Engineering Intern

Opelika, AL

- Proficiently conducted quality assurance testing for 100+ mobile applications on iOS and Android platforms
- Managed and maintained version control for various projects using Git.
- Skillfully employed JSON feeds to dynamically configure and enhance application functionality.
- Efficiently navigated the App Store Connect platform to submit iOS applications for release, ensuring compliance with Apple's standards and guidelines.

Technical Skills

Languages: Python, Java, C++, SQL, R, HTML/CSS, JavaScript

Developer Tools: VS Code, Eclipse, Jupyter Notebook, Microsoft Azure, Power BI

Technologies/Frameworks: Linux, Git, scikit-learn, PyTorch, TensorFlow/Keras, NumPy, Pandas, Matplotlib