

RAVI KUMAR ROGANNAGARI

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EDUCATION

KENNESAW STATE UNIVERSITY

Masters of Science, Computer Science
Cumulative GPA: 4.0/4.0

Jan. 2024 - Jan. 2026

R.V.R. & J.C. COLLEGE OF ENGINEERING

Bachelor of Technology, Electronics and Communication Engineering
Cumulative GPA: 8.09/10.0

Jun. 2017 - May. 2021

EXPERIENCE

Graduate Research Assistant (Volunteer)

Mar. 2024 - June 2024

Kennesaw State University

- Volunteered as a Graduate Research Assistant
- Developed a deep learning-based adversarial attack on the EuroSAT dataset that misleads models into predicting incorrect classes.
- Reduced the model efficiency of ResNet-50 from 93.87% to nearly 3%
- Currently working on a defense mechanism that restores efficiency to nearly 89%
- Working on transferring the attacks to other architectures and models

Assistant System Engineer

May. 2021- Sep.2023

Tata Consultancy Services

- Worked on a centralized platform that connects to the client's database.
- Assisted with storage and server data backup, data migration, and disaster recovery operations.
- Implemented SQL and Python code to enhance performance.
- I used Python, SQL, and Microsoft Excel to complete the task.

SKILLS

- **Programming Language and Methodologies:** Python, C, C++, HTML, CSS, JavaScript
- **Libraries and Frameworks:** Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch, Bootstrap, React JS, OpenCV
- **Database:** SQL, DBMS, MySQL
- **Tools:** Git, Microsoft Office, Jupyter Notebook, Visual Studio Code, Colab Notebooks, PowerBI

PROJECTS

Simpsons Character Recognition with OpenCV

- Developed a Kaggle notebook utilizing deep learning to recognize Simpsons characters based on a trained dataset.
- Achieved an efficiency rate of 67% in character recognition.
- Trained the deep learning model using a dataset comprising nearly 32,000 images of characters from the TV show Simpsons.
- Utilized libraries including OpenCV, Numpy, Matplotlib, and Caer for data processing and model development.

GuessNumber: Interactive Random Number Guessing Game

- Designed and developed a web application allowing users to guess a randomly generated number.
- Implemented features including score tracking and the ability to restart the game.
- Utilized HTML, CSS, and JavaScript to create an interactive and user-friendly interface.

CERTIFICATIONS

- Certified as Data Analyst Associate.
- Completed a certificate on Microsoft Azure Fundamentals.
- Certification in SQL for Data Science provided by the University of California, Davis.
- Completed a course named The Joy of Computing using Python provided by IIT Madras with 98%.