Rishav Raj

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Education

Kalinga Institute of Industrial Technology, B.Tech in Computer Science & Communication Engineering — 2023 – Present

- **CGPA**: 9.16/10.00
- **Relevant Coursework:** Data Structures and Algorithms, Computer Networks, Operating Systems, Database Management Systems, Object Oriented Programming

Experience

Web Developer Intern, Secuodsoft Technologies Private Ltd. — May 2025 – June 2025

- Developed a Django-based web application that extracts text from uploaded images by integrating Tesseract for OCR and Pillow for preprocessing.
- Gained hands-on experience with Flask, Django, and RESTful APIs while contributing to scalable web application development.

Projects

Social Media Platform | Django, WebSockets, PostgreSQL, Redis — December 2025

- Designed a social media platform supporting user authentication, media posts, likes, comments and a feed ordered by recency.
- Integrated a Real-Time chat feature using Django Channels and WebSockets, backed by Redis to enable scalable low-latency messaging.
- Implemented membership based authorization for group chats, limiting visibility and access only to authorized users.

Image Caption Generator WebApp | TensorFlow, Django — July 2025

- Developed an end to end image captioning pipeline using Flickr8k dataset, leveraging a pre-trained VGG16 model for feature extraction and tokenizer based approach for caption generation.
- Preprocessed and tokenized text data to create custom vocabulary from 40,000+ captions enabling efficient training.
- Built a web application using Django, integrating the trained model to generate captions with a responsive UI powered by Bootstrap and AJAX.

Driver Drowsiness Detector | TensorFlow, OpenCV — June 2025

- Built a real-time Driver Drowsiness Detector using Convolutional Neural Networks and Computer Vision techniques.
- Obtained 95.87% accuracy with CNN having 10 million parameters, trained on 4200+ labeled images.

Handwritten Digit Recognition using Neural Networks | TensorFlow, Scikit Learn — May 2025

- Achieved 97.4% validation accuracy using a custom Artificial Neural Network on the MNIST dataset with 60k training and 10k test images.
- Built a multi-layer neural network (784-16-16-10) using TensorFlow/Keras, applied ReLU and Softmax activations.

Technical Skills

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

Technologies: Django, Flask, ReactJS, TensorFlow, OpenCV

Certifications

- AI/ML with Projects Using Python (KIIT)
- AWS Academy Cloud Foundation