

# Rishav Raj

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## Education

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- 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

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- 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

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- 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

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

**Technologies:** Django, Flask, ReactJS, TensorFlow, OpenCV

## Certifications

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