

# SOUMYARANJAN PRADHAN

Python Full Stack Developer with AI/ML Exposure

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[LinkedIn](https://www.linkedin.com/in/soumyaranjan-pradhan/) | [GitHub](https://github.com/SoumyaranjanPradhan) | [Portfolio](#)

Ameerpet, Hyderabad, India

## Education

### Kalinga Institute of Industrial Technology (KIIT University)

Bhubaneswar, Odisha

Master of Computer Applications (MCA) – CGPA: 8.09/10.0

2023 – 2025

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, Web Technologies, Machine Learning, Cloud Computing

## Technical Skills

**Programming Languages:** Python, JavaScript, SQL, HTML5, CSS3

**Backend & APIs:** Django, Flask, Django REST Framework, Node.js, RESTful APIs, JWT Authentication

**Frontend Technologies:** React.js, Redux, Bootstrap, Tailwind CSS, JavaScript ES6+

**Databases:** MySQL, PostgreSQL, MongoDB, SQLite

**Cloud & DevOps:** AWS (S3, EC2), Docker, Git, GitHub, CI/CD Pipelines, Railway, PythonAnywhere

**AI/ML Libraries:** TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Deep Learning

**Payment Integration:** Stripe, Razorpay APIs

**Media Storage:** Cloudinary, AWS S3, CDN Integration

## Experience

### AI/ML Intern

February 2025 – March 2025

Central Tool-Room and Training Center (CTTC)

Bhubaneswar, Odisha

- Engineered end-to-end Face Recognition System using Python, OpenCV, and CNNs achieving 95%+ accuracy in real-time detection across diverse lighting conditions with 10,000+ image dataset
- Optimized deep learning model with TensorFlow and Keras through hyperparameter tuning and transfer learning, reducing inference time by 40% while maintaining high accuracy
- Delivered production-ready ML pipeline using Agile methodology within 2-month timeline, collaborating with cross-functional team on data augmentation and feature extraction techniques

## Projects

### GenZWay - Full Stack E-commerce Platform | Django, REST API, React, PostgreSQL, MySQL, Redux | [Live](#) | [GitHub](#)

- Architected scalable e-commerce application using Django REST Framework and React (Vite) with secure JWT authentication and custom permission classes for Admin/User roles
- Engineered persistent shopping cart with Redux Toolkit for state management and integrated Cloudinary for optimized image delivery ensuring consistent performance on Render's free tier
- Deployed decoupled architecture with PostgreSQL on Render (Backend) and Netlify (Frontend) configuring CORS headers and environment variables for secure cross-origin communication

### VellaVision – YouTube-like Video Sharing Platform | Django, PostgreSQL, Cloudinary, Railway | [Live](#) | [GitHub](#)

- Built full-stack video streaming platform with Django backend supporting user authentication, video uploads, likes/dislikes, view tracking, and channel management for 100+ concurrent users
- Integrated Cloudinary for permanent cloud video storage with auto-generated thumbnails, implementing FileField with custom validators for secure video uploads and optimized CDN delivery
- Deployed production application on Railway with PostgreSQL database, automated CI/CD pipeline, and environment-based configuration achieving 99% uptime

### Anime Search Application | React.js, REST API, JavaScript, CSS3

| [Live](#) | [GitHub](#)

- Developed interactive anime discovery platform with search functionality, category browsing, and random recommendations using React.js and third-party anime APIs
- Implemented client-side routing with React Router, state management, and asynchronous API calls with Axios for seamless user experience across multiple views

## Certifications & Achievements

**Certifications:** Python Complete Course and Flask Framework (Udemy), HTML Essentials (Udemy), Brain Computer Interface with Deep Learning (Udemy)

**Leadership:** Led code reviews and technical discussions during AI/ML internship