

Sai Pranav M

+91 8374488579 | msaipranav2004@gmail.com | [in Sai Pranav](#) | [pranav-85](#)

Hyderabad, Telangana - 500060, India

EXPERIENCE

• Hybrid Intelligence Lab, IIITDM

Dec 2024 - Current

Research Intern

Chennai, India

- **IoT Network Routing Research:** Researched dynamic routing in IoT networks using the ESP-NOW protocol, optimizing communication and routing efficiency using the Bellman-Ford Algorithm.
- **Simulation with Pygame and Simulink:** Simulated network performance to evaluate and improve routing efficiency under varying network conditions.

• NoQs Digital

Dec 2023 - Jan 2024

Data Analyst Intern

Remote

- **Data Analysis and Insights:** Analyzed data using statistical methods and automated tools, leading to business insights and cost-saving recommendations.
- **Data Management:** Managed databases, extracted and cleaned data, and created reports to support decision-making for various teams.

EDUCATION

• IIITDM Kancheepuram

Nov 2022 - July 2026

Bachelor of Technology in Computer Science Engineering

Chennai, India

- GPA: 8.18/10.00

• Narayana Junior College, TSBIE

2020 - 2022

Class 11 and 12

Hyderabad, India

- Grade: 967/1000

• Panineeya Mahavidyalaya Public School, CBSE

2020

Class 10

Hyderabad, India

- GPA: 461/500

PROJECTS

• Gender Classification Using Deep Learning on Facial Images

Tools: Tensorflow, OpenCV



- Implemented a CNN-based model on the "All Ages Faces Dataset, achieving 50% accuracy initially with a CNN, improved to 85% accuracy using VGG pre-trained model.
- Enhanced using techniques from the research paper "Deep Learning Based Approach for Gender Classification" including dlib preprocessing and VGG architecture.

• Note-taking Web Application

Tools: React.js, Django, MySQL, Django REST framework



- Built a full-stack note-taking app using Django REST for backend, React for frontend, and MySQL for data storage.
- Implemented features like note creation, editing, deletion, pinning, secure authentication, and sorting by pin status and creation date.

• OCR-Driven Document Extraction Web Application

Tools: React, Flask, Roboflow, HuggingFace



- Developed a React and Flask-based web app providing OCR services for extracting key details from scanned driver's license images.
- Enhanced text extraction accuracy through image preprocessing and integrated Roboflow 3.0 object detection for improved results.

SKILLS

- **Programming Languages:** C, C++, Python, Javascript
- **Web Technologies:** HTML, CSS, Javascript, React.js, Django
- **Database Systems:** MySQL
- **Data Science & Machine Learning:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, OpenCV
- **Other Tools & Technologies:** Power BI, Google Sheets, Selenium
- **Other Skills:** Object Oriented Programming, Data Structures and Algorithms, Socket Programming, Web Scrapping

LEADERSHIP/VOLUNTEER EXPERIENCE

- **Core, MATLAB Divsion** June 2024 - Current
System Coding Club, IIITDM Kancheepuram
- **Quality Management Team Member** Feb 2024
Vashisht 2024, IIITDM Kancheepuram
- **11th Convocation Volunteer** July 2023
IIITDM Kancheepuram

CERTIFICATIONS

- **Advanced Learning Algorithms, DeepLearning.AI** June 2024
- **Supervised Machine Learning: Regression and Classification, DeepLearning.AI** June 2024
- **Machine Learning Onramp, Mathworks** Aug 2024