


# Sai Pranav M

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## 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.

## 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
  - Grade: 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, MATLAB
- **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, Simulink
- **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