



Sai Pranav M

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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, 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