

SAI PRANAV THOTA

saipranav.thota@gmail.com | (+91) 7676540221

LinkedIn: [/sai-pranav-thota](#)

GitHub: [@saipranav-thota](#)

ACADEMIC PROJECTS

- **Hand Gesture Recognition**
 - Implemented an innovative deep learning model to classify and identify multiple hand gestures with an impressive accuracy of 98%. Utilized TensorFlow and MediaPipe for real-time gesture detection and processing. Integrated Scikit-learn for data analysis and OpenCV for computer vision techniques. Showcased proficiency in deep learning through the seamless combination of multiple tools and technologies.
 - [GitHub - saipranav-thota/HandGestureRecognition-tensorflow-mediapipe](#)
- **HirePro – A job listing Website**
 - Designed an innovative online job posting platform to centralize job listings from various websites, methodically aggregating and organizing data. Integrated the versatile Elasticsearch API for effective and efficient search functionality. Ensured a user-friendly interface with distinctive presentation of job listings for enhanced user experience. Focused on scalability and performance to meet real-world requirements of a dynamic job portal.
 - [GitHub - saipranav-thota/job-listing](#)
- **MAC unit using fpga board**
 - Multiply and Accumulate (MAC) units are a prominent component of filters. Designed using innovative distributive arithmetic and implemented by look up tables, this approach ensures efficient performance with enhanced speed and precision – Verilog, ModelSim, Intel Altera, Quartus Prim
- **Analog Calculator using Op-Amps**
 - Designed and developed a versatile analog calculator leveraging the capabilities of operational amplifiers, tailored to deliver remarkable computation speed and exceptional flexibility. This solution is well-suited for highly effective and responsive applications, particularly in scenarios demanding instantaneous and accurate results.

EDUCATION

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|---|---------------|
| • Vellore Institute of Technology(2022 - Present) | CGPA: 8.91 |
| • FIITJEE Junior College(2022) | SSC(XII): 94% |
| • The Brigade School | CBSE(X): 86% |

SKILLS

- **Technical:** c, c++, Java, Python, HTML, CSS, JavaScript, SQL, Flask
- **Languages:** English, Hindi, Telugu, German(basics)

Certificates

- Microsoft Azure Data Fundamentals
- IBM Data Science Professional Certificate - [link](#)

Extracurricular Activities

- **Leadership & Management:** Showcased leadership, teamwork, and problem-solving as a central committee member for TechnoVIT, and assisted faculties in SENSIBLES with adaptability, time management, and a strong work ethic for academic activities.
- **Clubs:** ResourceX(Management), Prodrino(Technical)