Sevanth Gajula

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Education

B V Raju Institute of Technology — **August 2024**
Bachelor of Technology in CSE (AI & ML), GPA: 8.02/10.00 — *Narsapur, Telangana*

B V Raju Institute of Technology — **August 2024**
Minor Degree in Data Science, GPA: 8.4/10.00 — *Narsapur, Telangana*

Kendriya Vidyalaya Picket — **June 2020**
Senior Secondary (PCBM)GPA: 8.67/10.00 — *Hyderabad, Telangana*

Skills, Frameworks, and Tools

- Deep Learning
- React
- Git
- Python
- MongoDB
- Machine Learning
- NLP
- LaTeX
- IoT
- OpenCV
- Tableau
- LLM

Publications

Inception V3 Model-Based Approach for Detecting Defects on Steel Surfaces — **January 2024**
IDCIoT 2024 — *Bangalore, India*

Dynamic Ensemble Learning with Evolutionary Programming and Swarm Intelligence — **November 2023**
ICECMSN 2023 — *Coimbatore, India*

Indian Sign Language Detection Using Inceptionv3 Model — **July 2023**
RESNA Annual Conference - 2023 — *New Orleans, USA*

Experience

RealPage — **May 2024 – Present**
Full Stack Developer — *Hyderabad, Telangana*

- Working on developing an agent-less tool for Application Discovery and Dependency Mapping
- Designed and Developed an interactive website from scratch which acts a Dynamic Servers Inventory and Mapping of Servers
- Implemented RAG (Retrieval-Augmented Generation) pipelines to enhance the performance and efficiency of Large Language Models, enabling more accurate and contextually relevant responses

Eizen AI — **August 2023 – March 2024**
Machine Learning Engineer — *Hyderabad, Telangana*

- Developed Long Horizon Time-Series Forecasting Models using Transformers and Causation Models for Relationships between Multiple Applications using Graph Attention Network
- Scaled the existing Causation Model from 30 applications to 300 applications
- Built Real-Time Applications leveraging advanced AI models including LLaVa, LLama and Flan T5

Newtab Technologies — **November 2022 – May 2023**
IOT Developer Intern — *Hyderabad, Telangana*

- Worked on the development of an Smart Lock for E-Cycle, integrating various sensors for efficient tracking and management
- Led a team of four interns in the successful development of an innovative IoT product designed for E-Cycles
- Conducted a comprehensive 2-day workshop for college students, effectively communicating complex technical concepts to nearly 100 attendees

Projects

Heatwave Occurrence and AQI Prediction | *Python, Deep Learning, Google Cloud, ReactJS* — **March, 2023**

- Developed a machine learning model to predict the occurrence of heatwaves and forecast air quality index (AQI) in Tier-2 cities of Telangana for the year 2023.
- The model has achieved an accuracy of 93% for Heatwave Occurrence and 89% on Air Quality prediction on the real-time data and has been deployed on Google Cloud.
- Helps individuals and organizations prepare for extreme weather conditions and take necessary measures to mitigate the impact of air pollution and heat waves.

Steel Surface Defect Detection | *Python, Deep Learning, OpenCV, InceptionV3*   **January, 2023**
- Developed a deep learning model using InceptionV3 architecture to detect defects on steel surfaces. The project aims to improve the efficiency and accuracy of quality control in the steel manufacturing industry.
- Worked as part of a team of 2 students to collect and preprocess the steel surface defect dataset, develop the deep learning model using Python and TensorFlow, and conduct experiments to evaluate the model's performance.

Eye Controlled Mouse | *Python, OpenCV, MediaPipe*   **October, 2022**
- Developed a computer vision-based system using MediaPipe to control the mouse cursor using eye movements.
- Conceived and executed the project independently. Used Python and MediaPipe to develop the computer vision algorithm for eye tracking and received best project award from TSIC on Physical Disability Day at T-Hub.

Coding Profiles

Leetcode: 20211a6650 **Hackerrank:** 20211a6650 **Codechef:** sevanth_333 **Interviewbit:** sevanth-gajula

Hackathons

Intel OneAPI Hackathon, Intel   **April 2023 – June 2023**
Finalists   *Intel*
- Selected to finale of Intel OneAPI Hackathon
- Achieved an impressive placement in the top 16 teams nationwide out of a competitive pool of 7,500 teams.

Solving for India   **May 2023**
Team Leader   *Google Cloud & AMD*
- Advanced to the institutional level and successfully participated in the regional round of a prestigious competition.
- Demonstrated exceptional skills among 2000+ teams, securing a spot among the top 300 teams selected.

Academic Grand Challenge on Climate Change   **January 2023 – March 2023**
Runner-Up   *NASSCOM, T-AIM*
- The challenge was conducted by Telangana AI Mission (T-AIM) in Association with NASSCOM and Capgemini.
- Placed in top-10 teams out of 7,500 teams across the country.

Position of Responsibility

President for University Build Club   **October 2022 – Present**
IIT-Madras Research Park
- Supervised and collaborated a team of 400+ members to organize and execute 3 successful events.
- Spearheaded a membership growth strategy that increased enrollment by 40% and implemented mentorship programs to improve engagement and retention.

Member at Rehabilitation Engineering Society of North America   **May 2022 – Present**
ATL, BVRIT
- Actively participated and worked in 6 multidisciplinary projects focused on technologies for disabled people.
- Participating in Student Design Challenge at RESNA Annual Conference 2023.

Sponsorship Lead and Host   **October 2022**
Promethean, BVRIT
- Hosted a National Level Technical Symposium, which had 1000+ participants from 30+ colleges.
- Led a 5-person sponsor team for Promethean, successfully securing ₹25000 of funding, building relationships with sponsors and college management, and coordinating with event organizers to ensure seamless execution.

Extra-Curricular Achievements

National University Men's Tennis Tournament   **2022, 2023**
Represented JNTU, Hyderabad
- Selected for University Mens Tennis Team among 40+ participants.
- Represented JNTU Mens Tennis team twice, conducted at SRM, Chennai & Vit, Vellore respectively.

National Cadet Corps   **2018 – 2022**
Indian Army, Indian Air Force
- Completed C, B certificate in Army Unit and A certificate in Air Force Wing.
- Attended a National Camp "Advance Leadership Camp" conducted at IIT Kharagpur.