SEVANTH GAJULA

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Education

Birla Institute of Technology and Science Pilani   **August 2025 – Present**
Master of Technology in Artificial Intelligence and Machine Learning   *Pilani, India*

B V Raju Institute of Technology   **August 2024**
Bachelor of Technology in CSE (AI & ML) with Minor in Data Science   *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
- PostgreSql
- Machine Learning
- NLP
- LaTeX
- IoT
- Kubernetes
- DevOps
- 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**
Engineer 1   *Hyderabad, Telangana*

- Lead the backend team, managing API and database development for internal platforms, while mentoring and guiding a team of 5 interns.
- Designed and built a Hybrid AI Platform from scratch that integrates data from diverse sources, understands data relationships, and detects anomalies across distributed systems.
- Implemented RAG (Retrieval-Augmented Generation) pipelines for enhancing LLM performance, and developed an agent-less Application Discovery and Dependency Mapping tool alongside a dynamic server inventory visualization system.

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

Projects

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

- Developed a machine learning system to predict heatwave occurrence (93% accuracy) and forecast AQI (89% accuracy) in Tier-2 cities of Telangana using real-time data; deployed on Google Cloud.
- Enables individuals and organizations to prepare for extreme weather conditions and mitigate the impact of air pollution and heatwaves.

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, improving quality control in steel manufacturing.
- Collaborated in a team of 2 to collect, preprocess data, and evaluate model performance using Python and TensorFlow.

Eye Controlled Mouse | *Python, OpenCV, MediaPipe*   **October, 2022**

- Developed a computer vision-based system using MediaPipe to control the mouse cursor with eye movements.
- Executed independently; received best project award from TSIC at T-Hub on Physical Disability Day.

Hackathons

ShortHack
2025, 2024
Finalists
RealPage
- Led a cross-functional team in developing an innovative Generative AI-based tool for document summarization.
- Top 10 teams among 120+ participating teams from different RealPage offices.

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

Subject Expert – Board of Studies (BoS)
August 2025
Department of CSE (AI & ML), B V Raju Institute of Technology
- Invited as a Subject Expert to contribute to academic deliberations, curriculum planning, and integration of emerging technologies; provided insights on UG/PG structure, NPTEL/SWAYAM inclusion, and collaborated with faculty to align programs with industry standards.

President for University Build Club
October 2022 – August 2024
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 – August 2024
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.