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Career Objective : I am a passionate and dedicated B.Tech CSE student (2025 batch) with a solid background in programming, web development, and AI technologies. I'm looking for a full-time opportunity as a Software Developer where I can apply my skills in frontend and backend development.

Skills

Programming Languages & Core Skills: Python, JavaScript, SQL, MySQL, Data Structures & Algorithms
Frontend Development: HTML, CSS, JavaScript
Python Web Frameworks – Django, Flask (intermediate)
Tools & Libraries: Git, GitHub, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, OpenCV
AI & Analytics : Machine Learning, Deep Learning, Generative AI (LLMs), TensorFlow, Keras, PyTorch
Soft Skills: Communication, Team Collaboration, Remote Work Adaptability, Time Management

Education

Qualification	Institute/Board	Percentage	Year
B. Tech, CSE	University College of Engineering and Technology	86	April 2025
Senior Secondary	Sri Chaitanya Arts and Science Kalashala, Khammam	95	May 2021
SSC	ZPHS Modugulagudem	85	March 2019

Internship & Academic Projects

National Institute of Technical Teachers' Training and Research, kolkata **Winter 2024 &**
National Atmospheric Research Laboratory (NARL), ISRO,Gadanki, India. **Jan - 2025**

- Worked on the Star, Galaxy, and Quasar Classification using Machine Learning project.
- Implemented ML models to classify celestial bodies using spectral and photometric data.
- Performed data preprocessing, including handling missing values, feature scaling, and dimensionality reduction.

Edunet (Code Unnati 3.0 Program), Telangana Government **November, 2024**

Project Name: Study on blood group detection using deep learning

- Designed and developed a CNN-based model for blood group detection using fingerprint images, improving classification accuracy through optimized preprocessing techniques.
- Applied advanced computer vision algorithms to refine image processing workflows, enhancing feature extraction and model performance.
- Conducted thorough dataset analysis to identify inconsistencies and anomalies, ensuring high-quality data for effective machine learning model training.
- Implemented preprocessing techniques such as noise reduction, normalization, and augmentation to enhance dataset robustness and model generalization

SPARC Internship, IIT Hyderabad| Machine learning intern **Telangana | May 2024 to June 2024**

- Used Machine Learning to improve semiconductor design and defect detection.
- Developed data-driven models for semiconductor process optimization.
- Applied AI techniques for predictive maintenance in semiconductor manufacturing.
- Worked with computer vision to detect defects in semiconductor wafers.
- Collaborated with IIT Hyderabad faculty on AI applications in semiconductor technology.

TechSaksham AICTE Internship **remote**

Project Name: Machine Learning for Plant Disease Prediction

- Developed and implemented AI/ML models for detecting and classifying plant diseases.
- Utilized deep learning techniques (CNNs, Transfer Learning) to analyse plant leaf images.
- Explored precision agriculture and AI-driven solutions to assist farmers.

Major Projects (project stage II)

Project Name: Improving the Classification Performance of Asphalt Cracks after Earthquake **April - 2025**

- Developed a deep learning model for automatic classification of asphalt cracks after earthquakes.
- Collected and labelled a new dataset of asphalt crack images from earthquake-affected highways.
- Utilized CNN-based models (VGG16) for crack classification.
- Designed and applied a novel feature selection algorithm (CMO-R) combining metaheuristic optimization and the Relief-F algorithm.
- Optimized classification performance, achieving 92.85% accuracy with the MNN classifier.
- Applied deep learning techniques for severity grading of asphalt cracks (major vs. minor).

Academic Project (project stage I)

Ship Detection using Deep Learning through Satellite Imagery **August 2024 – November 2024**

Technologies: Python, TensorFlow, Keras, OpenCV, CNN

- Developed a CNN-based deep learning model for accurate ship detection from satellite images.
- Pre-processed large datasets and applied data augmentation techniques to improve model robustness.
- Evaluated model performance using precision, recall, and IoU (Intersection over Union).

Workshops & Hands-on Trainings

- **Edunet (Code Unnati 3.0 Program):** Machine Learning, IoT, Deep Learning, Computer Vision
- **National Atmospheric Research Laboratory, Tirupati (NARL)-ISRO:** Data Science workshop
- **NIT Roukela:** AI/ML-based Controllers Design and Their Applications
- **IISc Bengaluru:** Reinforcement Learning Workshop
- **IIT Kharagpur, IIT Delhi, IIT Hyderabad:** Device Fabrication & Characterization, Semiconductor technology.

Courses and Certificates

Programming, Data Structures & Algorithms Using Python, Introduction to Machine Learning

- **Python Institute, CISCO Academy:** Python Essentials
- **Skill India, Infosys Springboard:** Web Development
- **ISRO, IBM Cognitive Class**: AI/ML for Data Analysis, AI/ML Courses

Awards & Achievement's

- NMMS (National Means-cum-Merit Scholarship) – 2018 (30000)