Mahideep Nagireddi

Bachelor of Technology Computer Science Engineering - AIML VNR VJIET, Hyderabad +91-9652488340 mahideepnagireddi@gmail.com https://github.com/matrix-09 leetcode.com/u/mahideepnagireddi linkedin.com/in/mahideep-nagireddi-703b00263/

Summary

AI/ML-focused Computer Science Engineer with hands-on experience in backend development, scalable system design, and API integration. Proficient in Python and Node.js with a strong foundation in problem-solving and model optimization. Passionate about developing intelligent and efficient solutions for real-world applications.

EDucation

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE-AIML	VNR VJIET, Hyderabad	JNTU, Hyderabad	7.99 (Till 6th Sem)	2021 - 2025
Intermediate	SASI junior College	BIE	98.8%	2019- 2022
SSC	SASI EM high school	BSE	10 GPA	2019

Technical Skills

- Programming Languages: Python, Java, JavaScript, SQL
- Tools and Frameworks: Node.js, Flask, MySQL, Postman API, TensorFlow, Keras, Scikit-learn, Github
- Core Competencies: Node.js backend Integration, Python Backend Integration, RESTful API, Data Preprocessing, Prompt Engineering, Model Development

CETTIFICATIONS

- Application development using Node.js, Udemy
- Cybersecurity and computer networks, NPTEL
- Smart Coder, Smart Interviews

Internships and Work Experience

Research Assistant Jan 2025 - Present

NIT AP

• Developed machine learning models to optimize mechanical dryer dimensions, improving efficiency by **98**% using Python and optimization algorithms. Enhanced energy consumption and drying performance, reducing operational costs by **40**% and increasing processing speed by **2x**, leading to a more sustainable and cost-effective drying system.

SkillBuild Internship Feb 2024 - Mar 2024

IBM, Hyderabad

- Gained hands-on experience in data analytics using Python, including **data manipulation**, visualization, and trend analysis.
- Explored Generative AI, learning model architectures and building practical solutions for applications such as text generation and image synthesis.
- Strengthened technical and analytical skills in data analytics and AI through real-world problem-solving.

Projects

• Intelligent Resume Matching System

jan 2025

- Developed an AI-powered resume screening tool using cosine similarity for candidate-job matching, reducing manual effort by 80%. Integrated LLM-based fraud detection to verify authenticity. Enabled threshold-based scoring, automated shortlisting, and email notifications. Scalable to process thousands of resumes efficiently, improving hiring accuracy and speed.
- Showcased various design principles such as authorization and authentication, dynamic data retrieval, and posting. .
- Skin Disease Classification and Progression Prediction using CNN

Nov 2024

- Enhanced an existing CNN-based skin disease classification model, increasing accuracy from 60% to 80% through data augmentation, hyperparameter tuning, and advanced preprocessing. Trained on a 6,000-image dataset and integrated a probability-based disease progression analysis, helping predict the potential growth of detected conditions.
- Deployed the model for real-time image diagnosis, improving early detection and decision-making in dermatology.

- Automated Decentralized Procurement Management system Backend-Integration

Sep 2024 Code link

- Developed a Procurement Management System to automate purchase requests, vendor selection, and inventory tracking, reducing procurement processing time by 50% and manual errors by 60%. Built with Node.js and Express.js, utilizing MongoDB for efficient data storage. Implemented a microservices architecture with REST APIs for scalability and modularity. Integrated role-based access control and real-time notifications, enhancing workflow efficiency and decision-making speed. Optimized system performance, improving data retrieval speed by 35% and ensuring seamless procurement operations.

Real Time Weather Application

Nov 2024 Code link

- Utilizing a third party API for obtaining real time weather data. Handling the required Data by creating APIs from extracting required data of different cities like Hyderabad, Mumbai etc., and visualization of historic trend.

Achievements

· Fetch.ai Agent Hackathon

2024

Fetch.ai

IIT-Guwahati Hackathon

- Represented VNR VJIET and secured 4th position among all 8 finalists in the grand finale at IIT-Guwahati out of nearly 950+
 teams, for developing an Automated Decentralized Procurement Management System using multi-agent AI technology.
- Flipkart Grid 2023-2024

- Qualified for 2nd round of Flipkart Grid National level Contest 2 times.

Problem Solving

2023

Competitive Programming

Hackerrank,Leetcode

- Won **50** Days badge on Leetcode for daily commits.
- Achieved Silver Level (4-star) in Competitive Programming on Hackerrank Leetcode, solving 500+ problems in DSA.

Training anD courses

Smart Interviews

2023-2024

DSA and Problem Solving

Hyderabad

- (Bronze Certification), Problem-Solving skills and critical Thinking for designing Algorithms.
- MERN Stack

2022

Full Stack Development

Hyderabad

Gained hands-on experience with Various Frameworks like React and Node.js and Database like MongoDB, efficient Web design and API designs.

CO-CURTICULAR ACTIVITIES

• Participated in SIH, VNR VJIET

2023

- Worked on a problem pitching and designing an Application for Tourists.
- Attended GIT Workshop, VNR VJIET

2023

- Got hands-on experience on GIT and GitHub.
- Participant, Ecficio 4.0H, VNR VJIET

Dec. 2021

- Involved in various coding contests in the annual Technical fest
- Inter-School Competitions

2018-20

- Secured 3rd Rank (Inter-School) in International Science Olympiad.
- Qualified for 2nd Round of NTSE.