

ASMITH

Computer Science Engineering Student

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PROFESSIONAL SUMMARY

A dynamic Computer Science Engineering student from VIT Vellore. I am adept in software development, machine learning (ML), data science, data structures and algorithms. My internships have equipped me with hands-on experience in advanced projects such as algorithm design, computer vision, and predictive analytics, showcasing my ability to address complex computational challenges. Proficient in various programming languages and analytical frameworks, I am dedicated to leveraging my expertise in software engineering and data science to innovate solutions for complex problems. With a passion for collaborative teamwork and a commitment to continuous learning, I am poised to contribute to technological advancements and efficiencies in my future endeavors.

WORK EXPERIENCE



Wells Fargo, India

Jun 2023 - Jul 2023

Intern Analyst

- Participated in a summer internship program, focusing on end-to-end project development and algorithm design for financial applications.



Cogknit Semantics Pvt. Ltd, Bengaluru

Machine Learning Intern

Aug 2023 - Dec 2023

- Contributed to dataset accuracy and reliability by performing detailed image and video annotation with CLIP and DINO, coupled with extensive data cleansing.
- Contributed to Computer Vision project focused on unmanned aerial surveillance by implementing YOLO V5 and Kalman Filter for sophisticated object detection followed by deep sort for tracking, emphasizing zero-shot detection capabilities.

EDUCATION

B.Tech in Computer Science and Engineering and Business Systems

Vellore Institute of Technology, Vellore, Tamil Nadu

Sep 2021 - May 2025

Grade: 9.35

Higher Secondary Degree, PCM with Computer Science

Radiant International School - PATNA

Mar 2009 - May 2021

12th : 92.8 %

10th : 87.8 %

SKILLS

Programming Languages: Python, C++, JAVA, C, R.

Frameworks & Technology: Flask, TensorFlow, Pandas, NumPy, Matplotlib, SciPy, Seaborn, YOLOv5, GitHub, Tableau, MongoDB, MySQL, CLIP, Data Structure and Algorithm, Dynamic Programming.

Key Skills: Machine Learning, Deep Learning, Neural Networks, Artificial Intelligence, Data Science, Computer Architecture, Cloud Computing, Software Development & Management.

Soft Skills: Communication, Analytical Thinking, Problem-Solving, Collaboration, Adaptability, Leadership, Creativity, Innovation, Time Management, Emotional Intelligence, Critical Thinking, Management.

PROJECT

Vision Insight

Developed a project utilizing Deep Sort and YOLO v5 for real-time text-prompted object detection and tracking in video frames. This innovative system excels in complex visual analysis and pattern recognition tasks.

911 Calls Data Analysis

The project analyzed emergency call data to identify high-frequency areas, categorize calls (EMS, Fire, Traffic), and examine time patterns, aiding in resource optimization and understanding emergency trends.

Knowledge Pal

Used Azure QNA maker along with LUIS and BOT Services to develop an interactive AI Chat both for easy understanding of Higher School Concept on WhatsApp as per convenience.

Green Guard

The Green Guard is an AI-Guided Plant Restoration System leverages AI to identify and treat different plant diseases, utilizing a unique dataset and ResNet for model training. Integrated with a Flask backend, it provides precise solutions for effective environmental restoration.

IntelliQuest

Developed a web application enabling conversations with YouTube videos, leveraging React for frontend, Flask for backend, and integrating GPT-3 and YouTube APIs for dynamic interaction and video detail extraction.

COURSES & CERTIFICATION

- Data Structures & Algorithms in Python [Coursera]
- Microsoft Azure AI Fundamentals - AI 900 Exam Prep [Coursera]
- Introduction to Statistics - [Stanford Online - Coursera]
- Introduction to TensorFlow [Coursera]
- Deep Learning & Neural Networks [Coursera]

HONORS & AWARDS

APRIL 2024	<u>Merit Scholarship - Vellore Institute of Technology_</u> Achieved Top 10 Rank in my Branch
AUGUST 2021	<u>Top Participants - ATL Tinkerpreneur</u> Participated in ATL Thinkerprenuer Bootcamp 2021 Developed Interactive Chatbot for Self-paced Education Ranked 57th out of 10,000+ Students in India
OCTOBER 2021	<u>Medal of Excellence - National Science Olympiad (SOF)</u> Achieved Top School Rank and Zonal Rank in NSO 2020-21 Gifted with 2000 INR Voucher International Rank - 300
OCTOBER 2021	<u>Medal of Distinction - International Mathematics Olympiad (SOF)</u> Achieved Top School Rank and Zonal Rank in IMO 2020-21 International Rank - 117