Naresh Tinnaluri
Machine Learning Engineer

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SUMMARY

Meticulous and results-driven professional with a deep-rooted passion for Deep Learning, Computer Vision, OCR, and Natural Language Processing (NLP). Expertise in Large Language Models (LLMs) and certified Post Graduate in Data Science with a specialization in Deep Learning from IIIT-Bangalore. Extensive hands-on experience in deploying complex machine learning and statistical modeling algorithms for pattern identification and valuable insights extraction. Proven track record of optimizing deep learning and machine learning methodologies for image processing, OCR, and NLP utilizing tools such as OpenCV, TensorFlow, and PyTorch. Proficient in Python, with a keen ability to develop and implement innovative AI solutions. Adept at collaborating across teams to develop cutting-edge Computer Vision, BCI, and VR applications.

KEY SKILLS

Computer Vision
Flutter
NLP Techniques
Deep Learning
Machine Learning
Python
TensorFlow & PyTorch
Large Language Models (LLMs)
Cloud Platforms (AWS, Azure, Google Cloud)
Distributed Computing
Team Leadership
Strong Communication Skills

PROFESSIONAL EXPERIENCE

Gemini API Developer and Generative AI Agents Developer Contest by NVIDIA and LangChain
Jun '24 - Present

SuccessSeeker

- Developing **SuccessSeeker**, an AI-powered interview preparation tool with customizable practice sessions, detailed feedback, progress tracking, and expert mock interviews using LLMs, LangChain, Flutter, and AWS.

Founder and Deep Learning Researcher
Oct '23 - Present

Nirmata Neurotech Pvt. Ltd.

- Pioneered research and development efforts for Brain-Computer Interface (BCI) and Virtual Reality (VR) technology integration.
- Conceptualized, designed, and implemented innovative BCI and VR solutions.
- Raised 20L for the development of Nirmata, demonstrating strong networking and persuasive communication skills in securing financial support for projects.

Machine Learning Engineer
May '23 - Sep '23

Workplete (Persist Ventures)
Remote

Machine Learning Engineer:
- - Automated application process to VCs, fellowships, and accelerators with an **Auto Form Blaster**.
- - Led **AGI** project, showcasing advanced transformer architecture expertise.
- Led the machine learning team, training models on AWS and deploying them for real-time inferences.

Computer Vision Intern
May '22 - Aug '23

ZestIoT Technologies Pvt. Ltd.   Hyderabad

- - Enhanced **object recognition accuracy** by **40%** through specialized research in **YOLO** methodology.
- - Pivotal in creating an **Autonomous Torpedo**, lowering operational costs by **80%**, showcasing strong problem-solving skills.
- - Achieved **40%** enhanced **tracking accuracy** with a high-precision **Speed Tracker**, boosting **aviation safety and operational efficiency**.

Computer Vision Research Engineer   Jun '22 - Nov '22

Aristocrat IT Solutions Pvt. Ltd.   Remote

- - Explored **Transformer** architecture intricately, demonstrating solid grasp of advanced neural network structures.
- - Studied diverse deep learning techniques, fostering comprehensive understanding of their potential for complex problem-solving.

Computer Vision Intern   Mar '22 - Jun '22

Artenal   Remote

Envisioning a Green Future through pioneering A.I. and Robotics Technology with Agricultural Applications.

Computer Vision Developer:

- - Spearheaded research and development of advanced **object recognition** algorithms, focusing on **SSD MobileNet architecture**, achieving a notable increase in accuracy.

Flutter Developer:

- - Collaborated within a 3-member team to deliver end-to-end development of the company's **palletizer application**, ensuring its seamless functionality and enhancing operational efficiency.

Data Scientist Intern & Computer Vision Intern   May '21 - Jul '21

The Sparks Foundation   Bengaluru, IN

To inspire students, help them innovate and let them integrate to build the next generation humankind.

Analytics & Machine Learning Methodologies:

- - Conducted extensive research to devise effective business problem-solving strategies.
- - Applied diverse machine learning techniques to construct dynamic **regression models**, enhancing predictive accuracy.

Object Detection:

- - Led the development of an object detection system using **YOLO** (You Only Look Once) technology, enabling real-time and precise recognition.

Python Developer   Jan '18 - Jul '20

SMG InfoTech Pvt. Ltd.   Hyderabad

- **Developed and optimized the DSC (Display Student Certificate) system**, resulting in a **25% reduction in processing time**. This streamlined the display and management of student certificates, enhancing operational efficiency and user satisfaction.
- **Implemented the ILP (Individual Login Provider)**:
- - Successfully **elevated user authentication and access control** fortifying security measures.
- - **Enhanced security protocols** further, leading to seamless user experiences and heightened data protection.

EDUCATION

Post Graduate Diploma in Data Science   Nov '20 - Dec '21

IIIT Bangalore

- Secured 3.23 / 4

B Tech. in Computer Science   Jul '13 - May '17

SunRise University

- Secured 72%

Higher Secondary (Intermediate)   Jun '11 - Jul '13

Sri Chaitanya Junior College

- Secured 80%

High School (X standard)   Jun '10 - Jul '11

Bhashyam Public School

- Secured 85%