Ratish Oberoi

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Summary

A third year B.Tech student who loves to explore things and talk about himself in the third person. He is an extrovert who has excellent communication and team-building skills. His field of expertise involves **AI/ML** and **Web Development**. He's also well versed with C, C++ ,Java, Python and MySQL. He is interested in exploring Data Science and Deep learning in depth. Outside of work, he loves to engage himself in playing with dogs and watching cricket.

Skills

- **Programming Languages:** C/C++, Python and it's libraries, Java, SQL, JavaScript
- **Technologies and Tools:** Power BI, Tableau, MongoDB, React.js, Node.js, Express.js, SDLC, Data Analytics, Machine Learning, NLP, CNN, Flask, Git, Github, HTML5, CSS, AutoCAD, Product Management
- **Extra-curricular:** Marketing, Event Management, Cynology

Education

SRM Institute of Science and Technology, Chennai *June 2022 – Present*
B.Tech in CSE with specialization in AI/ML

- CGPA: **9.53/10**
- **Relevant Coursework:** Computer Architecture, Object Oriented Programming, Computational Theory, Databases, Data Structures and Algorithms, Operating Systems, Data Science
- **Positions of Responsibility:** AI/ML Head, Coding Ninjas SRM

Indian Public School *2020 – 2022*
Class XII - CBSE Board

- Percentage: **90 %**

St. Thomas School *2007 – 2020*
Class X - ICSE Board

- Percentage: **94.7 %**

Work Experience

Chief Technical Officer *Bhubhaneshwar, India*
Finovia AI *Jan 2024 – Nov 2024*

- Established the company's technological vision, strategy, and roadmap, ensuring alignment with business goals and maintaining a competitive edge in the industry.
- Directed the design, development, and deployment of technology solutions, delivering scalable, secure, and efficient products and services.
- Recruited, managed, and mentored a talented tech team, fostering a culture of collaboration, innovation, and continuous improvement.

Product Design and Development Intern *Chennai, India*
PEZA *July 2023 – Oct 2023*

- Developed a diverse range of AI/ML models tailored to meet specific product integration requirements
- Designed the hardware model for upcoming products of company using MIRO and AutoCAD
- Worked closely with cross-functional teams to translate user requirements into functional product features, contributing to the end-to-end development process.

AI/ML Domain Head *SRMIST, Chennai*
Coding Ninjas Club, SRMIST *December 2022 – June*

- ○ Organized and conducted technical sessions, coding workshops, and hackathons to foster hands-on learning and innovative problem-solving among students.
- ○ Guided and mentored students in building AI/ML projects, offering technical support and technical advice to help them excel in the field.

Project Work

Real-Time Sign Language Translator

- ○ Built an AI system to recognize sign language gestures and translate them into text in real-time to aid communication for hearing-impaired.
- ○ Used YOLO for gesture detection and TensorFlow for sentence construction, enabling a fast and accurate translation pipeline.
- ○ Exposure: Python, YOLO, TensorFlow, OpenCV, NLP.

AI-Driven Financial Market Predictor

- ○ Developed an AI system to predict stock market trends using historical data and news sentiment analysis.
- ○ Utilized ensemble methods, LSTMs, and reinforcement learning to optimize portfolio management strategies.
- ○ Exposure: Python, TensorFlow, Sentiment Analysis, Reinforcement Learning, Bloomberg API.

E-Learning Platform

- ○ Designed and developed a responsive web application that allows users to take courses, track progress, and earn certificates.
- ○ Integrated a Node.js backend with a React.js frontend and a MongoDB database for user data management and analytics.
- ○ Exposure: HTML5, CSS3, JavaScript, React.js, Node.js, MongoDB, Express.js.

AI-Powered Attendance Management System

- ○ Developed a facial recognition-based attendance management system to eliminate manual processes and ensure accurate tracking in classrooms or offices.
- ○ : Utilized YOLO for real-time face detection and deep learning models for facial recognition, integrated with a database to store and manage attendance records efficiently.
- ○ Exposure: Python, YOLO, OpenCV, TensorFlow, Flask, MySQL, HTML/CSS, JavaScript..

Achievements

- ○ **National Child Scientist:** Recipient of the National Child Scientist Award by the National Children's Science Congress (NCSC)
- ○ **SRMJEEE Merit Scholarship:** Secured AIR 51 in SRMJEEE

Certifications

- ○ Power BI certification
- ○ NPTEL - Computer Architecture
- ○ NPTEL - Programming in Java
- ○ Supervised Machine Learning Certification by Stanford University
- ○ Business Analysis and Project Management