

Akul Pradeep

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B.Tech – Artificial Intelligence
& Data Science

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<https://github.com/dotpycoder>

EDUCATION

2021-2025	Crescent Institute Of Science And Technology Bachelor of Technology Artificial Intelligence & Data Science. First Year CGPA – 9.3	Chennai, India
2013-2020	Indus Valley World School (CBSE) Secondary School & Higher Secondary 10 th Grade – 91.4% 12 th Grade – 84%	Kolkata, India

EXPERIENCE

- **Indian Institute of Technology – Indore** May 2023 - Present
Drishti CPS Foundation
Research Team Lead
bit.ly/TH-CODE
 - I and my team secured a funding grant for our startup – TH Code with our college professor.
 - TH Code innovation, accurately identifies specific locations with 1-meter accuracy, creates precise destination points using our algorithm for conversion of latitude and longitude into an 8-character alphanumeric code, for easy navigation & documentation.
 - Coordinating Team & Data Collection for major locations & trees in our college campus.
 - Improved UI/UX of Android Application & deployment of website.

PROJECTS

- **Object Detection Using** Nov 2022 – Jan 2023
Computer Vision – YoloV2
bit.ly/CompVision-Project
 - I worked extensively on Computer Vision using the Python programming language and the OpenCV module.
 - My project focused on traffic recognition, specifically on counting various vehicles on roads.
 - I utilized a pre-trained model for vehicle recognition and counting.
 - My aim was to apply this technology for effective traffic control in bustling metro cities.
- **Stock Analysis Using** Jan 2023 – Present
LSTM & Random Forest
 - Retrieve Tata Motors stock data for the past 5 years and preprocess it by scaling the closing prices between 0 and 1.
 - Generate sequences of past closing prices to predict the next 5 days prices, providing the model with context for accurate predictions.
 - Accurate prediction of Tata Motors stock prices aids investors, traders, and financial institutions in decision-making, potentially increasing profitability and mitigating investment risks.

SKILLS

- **Programming:** Python, C, C++
- **Development:** Computer Vision, Machine Learning, Tensorflow, PyTorch, Data Science.
- **DBMS:** MySQL
- **Miscellaneous:** Leadership, Problem Solving, Creativity, Documentation, Communication, Collaboration.

PATENT

- Documentation of Trees using TH-Code (Pending) bit.ly/TH-CodePatent

ACHIEVEMENTS

- VIT's Data-a-thon Hackathon. (First runner up) Dec 2023
- Robotics AI and IOT, Intel's RAI program. June 2023

EXTRA CURRICULAR

- **Sports (BSAR):** Selected for Inter College Tournament in Table Tennis Dec 2022
- at Shiv Nadar University, Chennai.