

R. Akshay Chelliah

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EDUCATION

Indian Institute of Information Technology, Design and Manufacturing (IIITDM)

B.Tech in Smart Manufacturing with Minor in Machine Learning, 8.5 CGPA, Rank 4

Kancheepuram, India

Dec. 2021 – Present

DAV Senior Secondary School Boys Mogappair

12th Board Examination, scored 450/500

Chennai, India

2020

WORK EXPERIENCE

Machine Learning Intern

Tech Mahindra

July 2024 – Present

Remote

- Developed Python scripts to parse resume PDFs into text JSON objects using YOLO and PyTesseract, reducing manual data entry by 40%.
- Enhanced candidate shortlisting by implementing an algorithm using generative AI and vector search, improving efficiency by 30%.

Summer Intern

Zoho Corporation

May 2024 – June 2024

On site

- Collaborated with the CRM DI team to develop a demo website for AI tools
- Assisted in the creation of a content management system using Streamlit.

Data Science Intern

G Solutions

May 2023 – July 2023

Remote

- Prepared data and built predictive models for real estate price estimation and forecasting, achieving 85% accuracy.
- Developed a React-based frontend to display real estate price estimates and forecasts, enhancing user interface and experience.

PROJECTS

Robo Wars | *Arduino, SolidWorks, Embedded C*

Jan. 2024 – May 2024

- Engineered a robot using mild steel, 4 motors, 4 wheels, an Arduino board, and a Bluetooth module.
- Designed CAD models in SolidWorks and programmed the robot using Embedded C.
- Our team ranked among the top 8 in the tournament.

Multi Utility Measuring Pen | *Embedded C, SolidWorks*

Jan. 2024 – May 2024

- Invented a multi-functional device combining a writing tool and a measuring instrument, integrating an encoder and digital display.
- Utilized SolidWorks for design and Embedded C for programming, enhancing functionality and design.

Forecasting for Sales and Inventory Management | *Python, RNN, Exponential Smoothing*

Jan. 2023 – May 2023

- Collected data from the college retail store and conducted Exploratory Data Analysis (EDA) to derive insights.
- Developed an RNN model to predict sales figures and used Exponential Smoothing for inventory management, achieving validation loss of 0.041 and accuracy of 70%.

Snake Game | *Turbo C++*

July 2022 – Dec. 2022

- Developed a Snake game featuring player authentication, dynamic menu navigation, and score tracking.
- Implemented data persistence for player information and high scores using binary file handling, ensuring consistent user experience.

TECHNICAL SKILLS

Cloud: Azure

Programming Languages: Python, C, C++, SQL

Frameworks: Streamlit, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, OpenCV

Libraries: BeautifulSoup, YOLO, PyTesseract

Web Development: HTML/CSS, React, JavaScript

Tools: MS Office, Tableau, Git

ACHIEVEMENTS

Ranked 4th in the Smart Manufacturing department.

Reached the top 8 teams in Robo Wars competition.

INTERESTS

Badminton: Captained the Mechanical team in an inter-department tournament.

Won a silver medal in National Sports Day men's singles.

Won a silver medal in the Shuttle Whackers tournament.