R. Akshay Chelliah

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EDUCATION

Indian Institute of Information Technology, Design and Manufacturing (IIITDM) — Kancheepuram, India
B.Tech in Smart Manufacturing with minor in Machine Learning, 8.5 CGPA out of 10, Rank 4 — *Dec. 2021 – Present*

DAV Senior Secondary School Boys Mogappair — Chennai, India
Completed 12th board examination, scored 450/500 — *Year 2020*

WORK EXPERIENCE

Machine Learning Intern — July 2024 – Present
Tech Mahindra — *Remote*
- Developed Python scripts to parse resume PDFs into text JSON objects using YOLO and PyTesseract
- Enhanced candidate shortlisting by implementing an algorithm using generative AI and vector search

Summer Intern — May 2024 – June 2024
Zoho Corporation — *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 — May 2023 – July 2023
G Solutions — *Remote*
- Prepared data and built models for real estate price estimation and forecasting
- Developed a React-based frontend to display real estate price estimates and forecasts

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

Multi Utility Measuring Pen | *Embedded C, SolidWorks* — Jan. 2024 – May 2024
- Invented a multi-functional device combining a writing tool and a measuring instrument
- Incorporated an encoder to measure distances and a digital display for readings

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)
- Developed an RNN model to predict sales figures and used Exponential Smoothing for inventory management

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
- Demonstrated proficiency in C++ programming and graphical interface design

TECHNICAL SKILLS

Cloud: Azure
Programming Languages: Python, C, C++, SQL, Shell
Frameworks: Streamlit, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, OpenCV
Libraries: BeautifulSoup, YOLO, PyTesseract
Web Development: HTML/CSS, React, JavaScript
Tools: MS Office, Tableau

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