

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

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
- Enhanced candidate shortlisting by implementing an algorithm using generative AI and vector search

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
- 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
- Our team came among 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

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 (valloss: 0.041, accuracy: 0.7)

Snake Game | *Turbo C++*

July 2022 – Dec. 2022

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

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, Git, JIRA

ACHIEVEMENTS

Ranked 4th in the Smart Manufacturing department

Reached the top 8 teams in Robo Wars competition

INTERESTS

Represented IIITDM Kancheepuram in the Indian Institute of Technology Madras Sports Fest

Won a silver medal (2nd place) in National Sports Day men's singles

Won a silver medal (2nd place) in the Shuttle Whackers tournament

Captained the Mechanical team (both team A and team B) in an inter-department badminton tournament