

# Hem J V K



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LinkedIn



GitHub

## PROFILE

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Deep Learning and GenAI enthusiast with strong experience in programming and problem-solving. As a prefinal-year engineering student, I am passionate about learning new technologies and excited to contribute to the company.

## EDUCATION

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### B.Tech - CSE with a specialization in AI and ML

2022 – 2026

SRM Institute of Science and Technology - Vadapalani, Campus      **CGPA: 9.76**

### Higher Secondary Education

Sri Krish International School - Chennai

**Percentage: 87.2**

### Secondary Education

The CP Ramaswamy Aiyar Foundation- Chennai

**Percentage: 79.6**

## SKILLS

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### Technical Skills

- **Programming Languages:** Python, Java, C/C++
- **Databases:** MySQL, PostgreSQL
- **Low-code Technology:** Appsheet
- **Cloud Services:** AWS
- **Tools:** LLMs, Streamlit

### Computer Science Concepts:

- LLMs, Deep Learning, Machine Learning
- Database Management, SDLC
- DAA, DSA, OOPS
- Networking

### Non-Technical Skills

- Problem-solving
- Collaboration

## PROJECTS

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### Insight Engine: Data Dashboard Automation

03/2025 – present

- Spearheaded the development of an AI-driven platform that automates the end-to-end data science lifecycle, encompassing exploratory data analysis, automated visualization, advanced insight generation, and predictive forecasting.
- Engineered intelligent agents, leveraging Large Language Models (LLMs), with integrated machine learning capabilities and robust data pipelines to deliver precise, data-driven predictions and strategic foresight.
- Designed and deployed an intuitive chatbot interface, democratizing data analysis by empowering users to conversationally query complex datasets and extract ad-hoc insights on demand.

### PolyLLaMA

01/2025 – 02/2025

- Built a Streamlit-based application integrating LLaMA 3.1:8B, enabling intelligent and context-aware interactions.
- Implemented multilingual support, allowing users to choose their preferred language for seamless communication.

<ul style="list-style-type: none"> <li>Added text-to-voice and voice-to-voice functionalities, enhancing accessibility and user engagement through AI-driven content generation.</li> </ul>	
<b>Environmental Impact of Cropland: A Study on Greenhouse Gas Emissions</b>	08/2024
<ul style="list-style-type: none"> <li>Conducted Exploratory Data Analysis (EDA) to assess CO2 emission patterns, identifying key trends and anomalies.</li> <li>Applied the N-BEATS deep learning model for time-series forecasting, achieving 80% accuracy in predicting CO2 emissions.</li> <li>Created a choropleth map to visualize country-wise CO2 emissions from cropland, enabling comparative geographic analysis.</li> </ul>	
<b>Doodle Craft</b>	04/2024
<ul style="list-style-type: none"> <li>Developed a Java-based desktop drawing application with a Swing GUI, allowing users to create and edit drawings using various tools.</li> <li>Integrated MongoDB and local file system storage for data persistence, enabling users to save, load, and manage drawings efficiently.</li> </ul>	

## AWARDS AND ACHIEVEMENTS

<b>Smart India Hackathon 2024 - Winner - 500 teams participated all over india</b>	12/2024
<ul style="list-style-type: none"> <li>Modeled a predictive model using DARTS' N-HiTS architecture to forecast daily prices of 22 essential agri-horticultural commodities, optimizing market insights.</li> <li>Built an interactive Streamlit application to visualize historical trends, seasonality patterns, and future price predictions to enhance decision-making for stakeholders.</li> <li>Achieved a remarkable 99.4% accuracy, with price deviation limited to +/- Rs.100 to +/- Rs.200, ensuring high reliability for agricultural price forecasting.</li> </ul>	chennai, India
<b>Overall Proficiency Award</b>	03/2023
Overall Proficiency Rank I in the 1st Semester at SRM vadapalani	
<b>National Science Day - Winner - Science Expo organised by College</b>	02/2023
<ul style="list-style-type: none"> <li>Designed and built a compact, cost-effective CPU using a Raspberry Pi, tailored to meet the needs of programmers and developers.</li> <li>Configured a lightweight Linux-based environment with essential coding tools, including VS Code, Git, Python, and terminal utilities, ensuring a smooth development experience.</li> <li>Optimized system performance by integrating efficient cooling, power management, and customizable keyboard/mouse support, making it a portable and versatile coding workstation.</li> </ul>	

## POSITION OF RESPONSIBILITIES

<b>Student Mentor and Technical Team (ArrowDev Club)</b>	07/2024 – present
Real-World Frontend Experience Empower college juniors with hands-on frontend development using HTML and CSS. This value-added course, seamlessly integrated into the curriculum, provides real-time applications, practical insights, and a strong foundation for a future in web development. And conducted an event on using Agentic AI for building Applications.	
<b>Environmentalist Foundation of India (EFI) - Role: Volunteer</b>	06/2024 – 07/2024
<ul style="list-style-type: none"> <li>Actively participated in environmental conservation efforts, cleaning beaches and lakes to reduce pollution and promote ecological sustainability.</li> <li>Developed a no-code application to track volunteer attendance, ensuring efficient management and recordkeeping for conservation initiatives.</li> <li>Raised awareness about pollution through community engagement, encouraging responsible waste disposal and fostering a culture of environmental stewardship.</li> </ul>	Chennai, India