

# Jayanth Kumar

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## SUMMARY

Passionate Data Scientist with a strong focus on user behavior, experience, and engagement. I am skilled in designing data-driven experiments, analyzing complex datasets, and uncovering actionable insights. Leverages a solid foundation in statistics and data science to drive product improvements and support measurable business growth.

## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Master of Science in Computer Science, Artificial Intelligence Track*

*Expected May 2027*

**Cumulative GPA:** Present

**Relevant Coursework:** Artificial Intelligence, Machine Learning

**UCSI University, Kuala Lumpur, Malaysia**

*Bachelor of Engineering (Honors) Mechatronic Engineering*

*January 2023*

**Relevant Coursework:** Computing for Engineers, Engineering Software and Applications, Robotic Systems

## TECHNICAL SKILLS

**Languages:** C++, Python, SQL, R, JavaScript

**Software:** Jupyter Notebook, VS Code, GitHub, MySQL Workbench, Power BI, Tableau

**Additional:** Flask, AWS

**Certifications:** VIT Bangalore AI and Data Science Certification

## PROFESSIONAL EXPERIENCE

**Siemens, Data Scientist** | Bangalore, India

*May 2023 – July 2024*

- Built production ready ML models on large scale datasets to optimize marketing performance using advanced statistical and machine learning techniques.
- Developed scalable data pipelines and data integration workflows in collaboration with data engineering and operations teams.
- Created engineered feature sets and built classification, regression and clustering models using Python ML libraries and AutoML tools.
- Built frameworks to support reliable data ingestion, processing and model deployment.
- Partnered with analysts and scientists to extract insights and deliver data driven business value.
- Identified and recommended new AI/ML approaches to improve business and marketing performance.

## PROJECT EXPERIENCE

**Audio/Speech to Sign Language Converter, AI Hackathon**

*January 2025 – March 2025*

*Technologies: Python, Transformers, LLM's, Tokenizer*

- Trained and fine-tuned a LLM to translate audio extracted text into structured sign language representations.
- Performed dataset preprocessing, tokenization and embedding optimization to improve translation accuracy and model stability.
- Implemented training pipelines for LLM experimentation, hyperparameter tuning and model evaluation.
- Enhanced model performance by refining context understanding and sequence generation for accurate sign language mapping.
- Collaborated with teammates to integrate the trained LLM with speech to text and gesture generation modules, enabling end to end system functionality.

**Automated Interviewing System, Capstone Project**

*October 2024 – December 2024*

*Technologies: Python, NLP, Flask, HTML, CSS, JavaScript*

- Designed and developed an automated mock interview platform.
- Implemented speech to text and text to speech modules to enable real time interactive interview simulations.
- Built LLM powered response evaluation system to score candidate answers based on relevance, clarity, sentiment and domain knowledge.
- Engineered features for candidate performance analytics, including skill gap detection, topic wise scoring and improvement recommendations.
- Integrated a web-based UI for seamless interview flow, user authentication and results visualization.

**Skin Lesion Classification System, Independent Project**

*August 2024 – October 2024*

*Technologies: Python, TensorFlow/Keras, CNN, Transfer Learning, Gradio, OpenCV*

- Developed a deep learning-based skin lesion classification model using pre trained networks and custom lightweight CNN architectures.
- Trained models on the HAM1000 dermatology dataset to classify lesions into seven categories.
- Built an interactive Gradio web application enabling users to upload images and receive real time skin lesion predictions.
- Designed the system to assist dermatologists with early detection and reduce clinical workload through automated screening.

## LEADERSHIP EXPERIENCE

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**UCSI University, Kuala Lumpur, Malaysia, Chess Club Group Leader**

*September 2019 – October 2022*

- Led a team of students organizing weekly chess sessions, tournaments and strategy workshops.
- Mentored junior members by teaching gameplay tactics, improving analytical thinking and encouraging participation.
- Coordinated events and fostered a collaborative environment that strengthened team engagement and problem-solving skills.

**Scania Pvt Ltd, Bangalore, India, Team Lead Intern Group**

*January 2023 – April 2023*

- Managed a team of interns, delegating tasks and ensuring timely project delivery in a structured corporate environment.
- Facilitated team communication, progress tracking and problem solving to keep the group aligned with project goals.
- Provided guidance, mentorship and performance feedback contributing to improved productivity and team cohesion.