

SAI KRISHNA VAMSHI DEVARASETTY

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SUMMARY

Data Scientist with a strong software engineering foundation, holding a B.Tech in Computer Science from IIIT Delhi and currently pursuing an M.Tech in Artificial Intelligence at IISc Bangalore. Former Senior Software Engineer at MakeMyTrip and Assistant Manager in the Data Science team at AIMIL Ltd, with a Tech Leaders Fellowship in AI & ML from Plaksha University. Skilled in Machine Learning, Deep Learning, and Generative AI, with hands-on experience deploying LLMs and Vision-Language Models for applications in medical imaging, vital signs prediction, and data extraction. Achieved All India Rank 58 in GATE (Data Science & AI), combining theoretical rigor with practical expertise to build scalable AI solutions.

EDUCATION

MTech - Artificial Intelligence	IISc, Bangalore	2025-Present
Tech Leaders Fellowship - AI & ML	Plaksha University, Mohali	2023-24
BTech - Computer Science Engineering	IIIT Delhi, New Delhi	2016-20

SKILLS

- Programming Languages:** Python, SQL, JavaScript, Java
- Tools & Technologies:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PostgreSQL, MongoDB, Looker Studio, Tableau, Object Oriented Programming, Git, GitHub, MIFlow, Docker, Amazon EC2, ECR, ECS, Transfer learning from CNN architectures, LangChain, RAG based LLM chatbots, Finetuning LLMs along with Vision models, HTML, CSS, React Native, ReactJS, Flask
- Technical Courses:** Linear Algebra, Probability & Statistics, Data Structures & Algorithms, Database Management Systems, Machine Learning, Data Mining, Projects & Applications in Data Science, Natural Language Processing

EXPERIENCE

Assistant Manager, Data Science | AIMIL Ltd. Sep 2024 - July 2025

- Developed a deep learning pipeline for eye **fundus image classification**, achieving **96%+ recall** in **Diabetic Retinopathy** detection and contributing to securing a key business partnership.
- Vital Signs Prediction Using Facial Videos:** Developed an **rPPG**-based pipeline to predict vitals (**Heart Rate, BP, hemoglobin**) from video and image inputs. **Collaborated with AIIMS** for data collection, clinical trial protocol has been approved, working on optimizing algorithms for diverse conditions.
- Designed an AI-driven data pipeline using **OCR, LLMs, and NLP** to **automate Personally Identifiable Information (PII) extraction** from **visiting cards**.
- Built a **Streamlit dashboard** for **soil sample data analysis**, packaged as a **standalone executable** for deployment in **low-connectivity** environments.

Senior Software Engineer-1 | MakeMyTrip Jul 2020 - Jul 2023

- Refactored legacy **class-based components to functional components** in React Native for better maintainability and performance.
- Contributed for development of key projects including **Intercity 2.0, Ryde Cabs, Book Now Pay Later(BNPL)**
- Executed multiple **A/B experiments and tracking measures** to optimize user experience and drive informed decision-making
- Played a pivotal role in the **Provisional Booking project**, which now generates an **average of 150+ cab bookings per day**.

Data Scientist Intern | Little Black Book (Acquired by Nykaa), May 2019 - Jul 2019

- Developed a **live dashboard** utilizing **Google Looker Studio** for real-time data visualization and analysis using **BigQuery**.
- Streamlined data provision** to various departments including content, sales, etc., by **automating** processes tailored to their **specific requirements** by the conclusion of the internship.

PROJECTS

SwasthyaShare | Application

- Implemented an **audio-based** hospital form filling system utilizing **Whisper AI** for speech transcription and Google Translate for translation into English.
- Integrated the transcribed and translated content as context into **LLM llama-2-7b**, employing a custom **prompt-engineered** document format to generate accurate documents.
- Made a **Retrieval Augmented Generative (RAG) chatbot** for quick and efficient patient report inquiries.

Chest X-ray Findings Annotation System | Application

- Fine-tuned a **vision model (Llama-3.2-11B-Vision-Instruct)** to **annotate findings** in chest X-ray images from the Indiana University Chest X-rays Kaggle dataset [<https://www.kaggle.com/datasets/raddar/chest-xrays-indiana-university>].
- Developed a tool to support the efficient review and interpretation of radiological images.

Pdf file classifier for maliciousness | Cyber Security Course Project

- Developed a PDF classifier project to **detect malicious content**, achieving **high accuracy with low false positive rates**.
- Extracted features from **9000+ PDFs**, conducted **data cleaning, EDA**, and identified optimal features for training.
- Employed machine learning algorithms including **Logistic Regression, Decision Tree, Random Forest, and Gradient Boost**, using **cross-validation and ROC curve analysis** to achieve a best **accuracy of 98.89%** with only **0.09% false positive rate**.

ONLINE LEARNING

- **Associate Data Analyst** certification from DataCamp.
- **Associate Data Scientist** certification from DataCamp.
- **Applied Data Science I: Scientific Computing & Python (with honors)** Credly Badge issued by WorldQuant University(Online).
- **Applied Data Science II: Machine Learning & Statistical Analysis (with honors)** Credly Badge issued by WorldQuant University(Online).

AWARDS

- **Super Started Award** for the quarter I joined at **MakeMyTrip**.
- **Awesome Colleague of the Month** during my internship at **Little Black Book (LBB)**.

OTHERS

- Hackerrank **Gold Level** badge in both **Python** and **SQL**.
- Facilitated and delivered an informative session on GATE preparation for Data Science & AI for students at RGIPT.