SAI MATHURA KRISHNAN K

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About

Highly motivated final-year data science student seeking a research-oriented role to leverage my strong analytical skills, proficiency in Python, and passion for Natural Language Processing and Computer Vision. Eager to contribute to impactful projects that address real-world challenges and advance the field.

Coding Projects

Automated UI Control Using LLM'S | Python, NLP, LLM, Research
March 2024

- Usage of LLMs to achieve the task of UI Control in Android mobiles
- Implemented the initial benchmark from this paper
- Significantly improved the performance of the available benchmark
- Guided and Supported by V Bhaskaran and PVSS Prakash

Low-Resolution Facial Recognition | Python, Jupyter Notebook, Research
March 2023

- Systematically gathered facial image data from my classmates, and meticulously performed preprocessing techniques to enhance data quality
- Rigorously experimented with various facial recognition approaches, including eigenfaces, VGG16, and ultimately Inception-Resnet-V2 with Arcface.
- Despite employing a standard webcam for data acquisition, which yielded low-resolution facial images
- I achieved a significant improvement in facial recognition accuracy. I wrote a **_BLOG_** describing the process, workflow
- Guided by V Bhaskaran

Sai Echos | Python, VectorDB, LangChain
August 2023

- Using Sri Sathya Sai Baba's discourses and books, we made an interactive chatbot that uses Retrieval Augmentation (RAG) using Langchain and VectorDB, along with Llama-2.
- Guided and Supported by PVSS Prakash

Automated Data Visualization with Power BI | Power BI, Oracle
April 2022

- Used SSSIHMS hospital data to produce live and automated graph visualizations of patient details, hospital activities
- Hosted it on the hospital server using Oracle and Power BI
- Real-time data changes can be tracked and a lot more customizations were added
- Over 170+ charts were produced, all tracking real-time data changes
- Guided and Supported by Subba Rao

Education

Masters in Data Science and Computing
Sri Sathya Sai Institute of Higher Learning
MSc. course work
8.6/10 CGPA   2022 - 2024

Bachelors of Science in Computer Science Hons.
Sri Sathya Sai Institute of Higher Learning
BSc. course work
7.1/10 CGPA   2019 - 2022

Skills

Coding Languages:	Frameworks:	Languages:	Soft Skills:
- Python	- Pytorch	- English (Professional)	- Communication
- R	- TensorFlow	- Tamil (Native)	- Leadership
- C & C++	- Scikit-Learn	- Telugu (Elementary)	- Problem-solving
- SQL	- Pyspark	- Hindi (Elementary)	- Creativity
- JAVA	- Django		- Critical thinking
- HTML & CSS			- Adaptability
- JavaScript			- Teaching

Reference
V Bhaskaran *Assistant Professor, DMACS, SSSIHL*, **vbhaskaran@sssihl.edu.in**

Experience

Research Assistant   2024 - ongoing
Indian Institute of Technology, Hyderabad

Presentations

- Gave a talk on Transformers and Vision Transformers to scientists from Defence Research & Development Organisation.
- Gave a talk on Computer Vision and Vision Trasnformers to 2nd year master's students in Sri Sathya Sai Institute of Higher Learning