THILAK D

Coimbatore, Tamil Nadu, India

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OVERVIEW

Aspiring to join an innovative organization where I can apply my expertise in Data Science, Machine Learning, and NLP to develop impactful solutions. Passionate about leveraging AI, automation, and Knowledge Graphs to enhance information retrieval and solve complex challenges in data-driven decision-making, contributing to projects with real-world impact and societal benefits.

EDUCATION

Master of Science in Data Science and Computing
Sri Sathya Sai Institute of Higher Learning

CGPA - 8.6 (cumulative)
June 2023 – Present

Bachelor of Science in Computer Science (Hons.)
Sri Sathya Sai Institute of Higher Learning

CGPA - 7.1
June 2020 – May 2023

SKILLS

- **Data Science:** Deep Learning, Natural Language Processing, Ontology Extraction, Data Analytics
- **Technical Skills:** Python, R, C, C++, SQL (MySQL), JavaScript, MERN Stack, PySpark, Flask, Android SDK
- **Developer Tools:** Git, VS Code, Visual Studio, Power BI
- **Libraries & Technologies:** Neo4j, Vector Databases, Machine Learning, Data Processing

WORK EXPERIENCE

Data Analyst Intern
SAIMA Labs, TaskBench

Chennai, Tamil Nadu
May 2024 – June 2024

- Conducted market research and built predictive and classification models, increasing efficiency using Python
- Analyzed datasets of over 50000 live records, generating actionable insights that improved client marketing strategies
- Collaborated on 2+ digital marketing projects, enhancing market presence, and received praise for professionalism
- Prepared 2 due diligence reports and 3+ proposal documents, contributing to strategic decision-making and client acquisition.
- Managed multiple projects, ensuring 100% on-time delivery and high client satisfaction

Web & Media Contributor
Sri Sathya Sai Balvikas

Chennai, Tamil Nadu
Mar. 2021 – May 2022

- Helped implement multi-language support for the official website using WordPress.
- Edited 20+ engaging videos for their YouTube channel, making content more interesting for children.

PROJECTS

Hybrid Retrieval of Medical Guidelines Using Ontology-Driven Knowledge Graphs
Sri Sathya Sai Institute of Higher Learning

June 2024 - Present

- Preprocessed large-scale medical data using Python to extract, clean, and integrate structured and unstructured healthcare information.
- Built a Neo4j-based Knowledge Graph (KG) to structure Ayushman Bharat - PM-JAY data, improving precision and accessibility.
- Developed a Hybrid Retrieval Framework by fine-tuning an LLM for Cypher query generation and integrating vector embeddings with the KG for efficient information retrieval.

Automating Job Recommending Algorithm
Sri Sathya Sai Institute of Higher Learning

GitHub repo - *https://github.com/RPA*
June 2023 - March 2024

- Automated LinkedIn job searches using RPA with Selenium, streamlining the search process
- Applied NLP with Sentence Transformers for skill extraction, improving profile-matching accuracy
- Utilized Weaviate for semantic data storage, managing 500+ job listings, and generating personalized, data-driven job recommendations

SAAVAAD
Sri Sathya Sai Institute of Higher Learning

GitHub repo - *https://github.com/SAAVAAD*
Nov. 2022 - March 2023

- Built a cross-platform app for text summarization & translation using React Native & Flask.
- Hosted ML models externally for efficiency, enabling global access via Serveo.net.
- Implemented secure data storage with MongoDB encryption & offline access.

HONORS & ACHIEVEMENTS

- Won the House Championship (2024-25) at the Sri Sathya Sai Annual Sports & Cultural Meet as House Captain.
- Awarded Best Intern 2024 for exceptional performance at SAIMA Labs, TaskBench.
- Ranked 15th in the 2023 Analytics Olympiad, a national ML hackathon by MachineHack.
- Appointed Student President of the Digital Enlightenment Club, leading digital literacy initiatives.
- Co-founded Eco-Einsteins to promote environmental awareness and sustainability.
- Member of the Institute's Innovation Council, driving innovation and entrepreneurship.

CERTIFICATIONS

- Neo4j Certified Professional
- ACET
- AWS - Could Foundation
- RPA Essentials