

Sabarinathan K

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Education

Coimbatore Institute of Technology
Integrated M.Sc Data Science
Suguna PIP School
PCM with Computer Science

Coimbatore | August 2020 – May 2025
CGPA: 8.203
Coimbatore | Grad. 2020
Cum. Per: 78

Experience

Miwafes Consulting Pvt Ltd
Data Analyst Intern

July 2023 - December 2023
Chennai, Tamil Nadu

- Analyzed customer survey data to segment the customer base, identifying key preferences and behaviors, which led to a 10 percent improvement in targeted service delivery.
- Implemented a Bidirectional Recurrent Neural Network (BiRNN) model that improved customer churn prediction accuracy by 15 percent, enabling the development of personalized retention strategies.
- Developed an NLP model for customer feedback analysis, uncovering sentiment insights and service improvement areas.
- Created analytical reports that boosted customer acquisition and retention rates by 12

RedBlackTree Technologies Pvt Ltd
AIML Engineer Intern

December 2024 - Present
Chennai, Tamil Nadu

- Designing an LLM-powered resume parsing system to extract structured data like skills, experience, education, and certifications.
- Building an interactive RAG-based chatbot to dynamically engage candidates and collect additional information.
- Integrating parsed resumes, chatbot data, and job descriptions to rank candidates based on predefined criteria for accurate shortlisting.
- Automating end-to-end workflows for resume parsing, candidate interaction, and ATS integration, reducing manual effort and improving efficiency.

Projects

Scientific Paper Recommendation System | NLP, Machine Learning, LLM

- Developed an interactive application using Streamlit for clustering and analyzing scientific papers, integrating ArXiv API and leveraging NLP techniques like TF-IDF and SciBERT embeddings
- Implemented advanced clustering algorithms and PDF analysis features, achieving robust performance metrics and enhancing research accessibility with features like summarization and Q and A.

Automated Number Plate Recognition | EasyOCR, OpenCV

- Developed an ANPR system using image processing techniques and a camera, achieving an 88 percent accuracy rate in real-time number plate detection and recognition

Technical Skills

Programming Languages: Python, SQL
Frameworks: Django, Streamlit, Langchain, RAG
Databases: MySQL
Tools and Techniques: Power BI
Other Concepts: Machine Learning and Deep Learning, Natural Language Processing
Prescriptive Analytics and Generative AI

Soft Skills and Interests

• Strategic thinking • Active listening • Business Intelligence • Stock Market • Finance

Achievements

- **Data Analysis on COVID 19 Vaccination:** Participated and presented a paper at the 2nd Virtual National Conference on Mathematical Modelling and Computation 2021..
- **Melinia Hackathon, 2022:** Finalist in National level symposium conducted by CIT, 2022