Sabarinathan K

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Education

Coimbatore Institute of Technology

Coimbatore | August 2020 – May 2025

Integrated M.Sc. Data Science

PCM with Computer Science

CGPA: 8.3

Suguna PIP School Coimbatore | Grad. 2020

Cum. Per:78

Experience

Miwafes Consultancy Pvt Ltd

July 2023 – December 2023

Chennai, Tamil Nadu

Data Analyst Intern · 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

December 2024 - April 2025

AIML Engineer Intern

Chennai, Tamil Nadu

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

Academic 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.

Email Spam Classification | NLP, Machine Learning

- Implemented a supervised learning model using the basics of NLP to classify emails received as legitimate or fake.
- Trained machine learning model using popular NLP libraries to extract relevant features and gain a classification accuracy of 82 percent.

Technical Skills

Programming Languages: Python, SQL

Frameworks: Django, Streamlit, FastAPI MySQL, PostgreSQL, Pinecone **Databases:**

Tools and Techniques: GIT, Power BI

Machine Learning, Deep Learning, Natural Language Processing, RAG **DS Concepts:**

Prescriptive Analytics, Large Language Models and Generative AI

Other Concepts: Docker

Soft Skills and Interests

• Strategic thinking • Active listening • Business Intelligence • Stock Market • Finance • Problem-Solving

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