

Dibin V Sivadas

Machine Learning Engineer/Data Analyst/Software Engineer

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AIM: To secure a challenging position in a dynamic organization that leverages my skills in **data science, machine learning and analytics** while providing opportunities for professional growth.

🎓 Education

Masters of Technology in Data Science, Amrita Vishwa Vidyapeetham

CGPA: 7.8

2021 – 2023

Bangalore ,Karnataka,
India

Bachelors Of Engineering in Computer Science, TKM College Of Engineering

CGPA:6.4

2015 – 2019

Kollam, Kerala, India

All India Senior Secondary Examination(CBSE 12th), Kendriya Vidyalaya No.2 Naval Base

Percentage:91.2

2015

Kochi,Kerala, India

📁 Professional Experience

Data Analyst Intern, Synopsys Inc

08/2022 – 02/2023

Bangalore, India

- Developed Python scripts and software tools to automate data extraction, processing, and analysis.
- Worked with hardware engineers to understand requirements and design solutions to meet their needs.
- Developed and maintained MongoDB databases and data pipelines to store and organize complex chip design data.
- Collaborated with team members to develop custom data visualization using React-Tabulator implemented via Flask and other reporting tools.
- Troubleshooted and resolved data-related issues and bugs.

FrontEnd Developer, Spectrum Softech Solution

02/2020 – 07/2020

Kochi, India

- Development of React E-commerce platform made using React JS, Firebase (authentication), Firestore, Stripe API (dummy payment gateway) collaborating with senior developers .
- Worked with the redesign of a client company website implementing responsive design and modern UI/UX principles

🧠 Skills

Programming

Python , R Language ,C

Databases

MySQL, MongoDB

FrontEnd Skills

React ,Javascript , Flask

Visualization Tools

Matplotlib,PowerBI,
Tableau ,Excel

Cloud

Google Cloud Platform,
Azure Basics

Other Skills

Numpy,Pandas
BeautifulSoup(WebScraping)
APIs

Mathematics

Linear Algebra,
Statistical Analysis,
Probability Theory

Projects

News Trend Stock Price Prediction using NLP and Deep Learning Technologies.

12/2021

- **Aim:** Modeled and analyzed the dynamics of stock markets by utilizing both daily news and stock prices .
- **Solution:** Text representation and sentiment of the news can reflect possible stock market changes in different ways. Predicting Stock Prices Using An LSTM Model.
- **Result:** From Close price data for past 60 days for LSTM predicted close price for 61st day taking Sentiment Intensity Analyzer and stock price features into consideration. Accuracy > 70%.

Predicting Bill-board hits using Spotify data

02/2022

- **Aim:** To investigate using ML Techniques to predict which songs will become Billboard Hot-100 hits.
- **Goal:** Data for - 4000 songs was collected from Billboard.com and Million Song Dataset. Songs were from 1990-2018. Songs labeled 1 or 0 on Billboard success. Audio features for each song were extracted from the Spotify Web API. Four machine learning algorithms were used to predict a song Billboard's success.
- **Result:** Found that Decision Tree performed best with precision of 88% and recall > 87%.

Building Recommendation Engines with PySpark, *Datacamp Miniproject*

05/2022

- **Aim:** To build recommendation engines using Alternating Least Squares in PySpark.
- **Solution:** Use basic concepts of matrix multiplication and matrix factorization and use Alternating Least Squares algorithm and combine hyperparameters to return the best recommendations possible
- **Result :** Used ALS method to build a recommendation engine and evaluated its performance.

Optimizing Online Sports Retail Revenue(DataCamp MiniProject)

01/2023

- Used SQL skills to analyze product data for an online sports retail company.
- Worked with numeric, string, and timestamp data on pricing and revenue, ratings, reviews, descriptions, and website traffic.
- Used techniques such as aggregation, cleaning, labeling, Common Table Expressions, and correlation to produce recommendations on how the company can maximize revenue.

Image processing Computer Vision project (Paper published in IEEE Explore),

06/2022

<https://ieeexplore.ieee.org/document/9984482>

Comparative Study of Liver Segmentation using U-Net and ResNet50 Deep Learning Models.Used Python OpenCV library and PyTorch.

Data Visualization project using PowerBI, (Paper Publication in Progress)

05/2022

A Study of Eye Gaze Pattern on Reading

Analyzing the eye gazing patterns of 30 students and drawing out some important conclusions with the help of data visualization techniques using PowerBI.

Languages

English • Malayalam • Hindi