

Dilipkumar P

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EXPERIENCE

AZENTIO SOFTWARE PRIVATE LIMITED | Chennai

February 2023 - Present

- **Software Engineer:** Developed new reports and dynamic documents using **Espressoreport** and **Autotag** with **PL/SQL**, resolved long pending technical issues, Handled customer relations and support, addressing concerns and providing timely solutions, used **Java** for debugging and additionally **Python** for data scraping.
- **Trainee:** Created new medical products based on old ones and new requirements using **PL/SQL**, testing, implementation, documentation for future reference, adapting to new projects and CRM.

PROJECTS

MACHINE LEARNING

Adult Income Prediction | [Link](#)

- Trained a RandomForestClassifier model on the Adult Income dataset to predict income levels with 84.8% accuracy and deployed it using **Flask** on Render for real-time predictions.

Spam Detection | [Link](#)

- SMS Classification as spam or ham using various machine learning models, including LazyPredict for initial model selection and GridSearchCV for hyperparameter tuning of the best performing model of **98.8%** accuracy (SGDClassifier).

Formula Based Modeling | [Link](#)

- Implemented machine learning models—linear, multilinear, polynomial regression, and Naive's forecasting—directly from their mathematical formulations, bypassing standard libraries. This allowed for a detailed analysis and comparison of forecast accuracy against library-derived results, validating the original implementations.

Recommendation System | [Link](#)

- Python movie recommendation model that recommends similar movies by analyzing movie overviews using cosine similarity.

DATA ENGINEERING

Youtube Channel Data Extraction | [Link](#)

- Developed a **data pipeline** using the YouTube Data API and Python to extract channel, video, and comment data, storing it in MongoDB for analysis. Created an interactive Streamlit UI for data visualization and retrieval.

Phonepe Pulse data Analysis | [Link](#)

- Developed an interactive Streamlit dashboard visualizing PhonePe Pulse data from a MySQL database, using Plotly Express for dynamic insights into transactions, insurance, and user trends.

EDUCATION

ANNAMALAI UNIVERSITY

Chidambaram | 2019 to 2023

B.E (CSE) DATA SCIENCE

CGPA: 8.27

SKILLS

PROGRAMMING

Intermediate:

Python • Flask

SQL • PostgreSQL • MySQL

Basic:

Java • R • Html-CSS • GIT

Tensorflow • Pytorch • Pyspark

Databricks

TECHNICAL

Machine Learning • Data Science

Programming • Problem solving

OOPs • DSA

CERTIFICATIONS

[Hackerrank](#)

Python - SQL

[Kaggle](#)

Intro to ML - Pandas - Data Cleaning

[NVIDIA](#)

Building Transformer Based Natural Language Processing Applications

[AWS](#)

Technical essentials

[EF SET](#)

English

HOBBIES

Attending tech events • Coding

Drawing • Exercising • Collecting

LINKS

[Github](#)

[LinkedIn](#)

[Leetcode](#)

[Codechef](#)