Sibi Krishnamoorthy

Data Analyst

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Profile

Enthusiastic and dedicated Data Analyst with a strong foundation in data science, machine learning, and software development. Experienced in leveraging analytical skills and data-driven insights to support business decision-making and drive innovation. Adept at collaborating with cross-functional teams to develop solutions that align with organizational goals.

Education

Bachelor of Engineering in Computer Science and Engineering (Data Science)
Annamalai University
January 2022 - July 2026 (Expected)

- **Completed Coursework:** Data Structures, Algorithms, Machine Learning, Software Design, Database Management, Data Visualization, Hadoop, Big Data Analytics, Data Engineering, Agile, NoSQL

Work Experience

Machine Learning Intern
CodSoft, India
June 2024 - July 2024

- Developed machine learning models for real-world projects: SMS spam detection, credit card fraud detection, and movie genre classification.
- Utilized Multinomial and Bernoulli Naive Bayes classifiers with TF-IDF Vectorization for SMS spam detection, achieving high accuracy.
- Designed and deployed web applications for each project using FastAPI and Streamlit, enhancing accessibility and user experience.
- Implemented Continuous Training (CT) pipelines in MLOps to automate model updates using online and offline learning techniques.
- Collaborated with cross-functional teams to integrate data science solutions into existing business processes.

Data Science Intern
CodeClause, India
March 2024 - April 2024

- Collaborated on a project for Credit Card Fraud Analytics to improve detection accuracy and minimize false positives and negatives.
- Conducted data cleaning, preprocessing, and feature engineering to optimize model performance.
- Built and evaluated machine learning models using logistic regression, random forest, and neural networks; deployed the model for real-time fraud detection.

Assistant Secretary of Placement Coordinator
Annamalai University, India
May 2023 - July 2024

- Facilitated placement activities and coordinated between students and companies to ensure successful recruitment drives.

Technical Skills

- **Programming Languages:** Python, Java, C++, SQL
- **Operating Systems:** Unix/Linux
- **Database Technologies:** PostgreSQL, MongoDB, Redis, Oracle Database, SQLite, Hive
- **Cloud Computing:** Microsoft Azure, Google Cloud, Amazon Web Services
- (AWS)
- **Data Analysis Libraries:** Pandas, NumPy, Scikit-learn, Scipy
- **Big Data Tools:** Apache Spark, Hadoop, Cassandra
- **Machine Learning Frameworks:** Tensorflow, PyTorch, Keras
- **Data Visualization Tools:** Matplotlib, Seaborn, Plotly, Dash, Tableau, PowerBI, Excel
- **Web Technologies:** FastAPI, Streamlit, Gradio, Flask, Selenium
- **Containerization:** Docker. Kubernetes
- **Machine Learning Techniques:** Natural Language Processing, TF-IDF Vectorization, Logistic Regression, Random Forest, Naive Bayes, Gradient Boosting, Neural Networks
- **Other Skills:** Statistical Modeling, Predictive Modeling, Data Engineering, Hadoop Distributed File System, git, CI/CD, HTML5, CSS

Certifications

- **Python for Data Science** - IBM

- **Introduction to Large Language Models** - Google
- **Introduction to Generative AI** - Google
- **Google Analytics for Beginners** - Google (Expires Feb 2027)
- **Python for Data Science** - NPTEL
- **Python for Beginners** - Simplilearn
- **R Programming Guide for Beginners** - Eduonix
- **C++ Programming from Scratch to Advance** - Udemy

Projects

SMS Spam Detection

- Developed a spam detection model using Naive Bayes classifiers with TF-IDF Vectorization, achieving a precision of 95%.
- Implemented a feedback mechanism for retraining the model based on user input, ensuring model accuracy over time.

Credit Card Fraud Detection

- Built a fraud detection system using machine learning algorithms, reducing false positive rates by 15%.
- Conducted exploratory data analysis to identify patterns and features indicative of fraudulent activity.

Movie Genre Classification

- Created a genre classification model for movies using various machine learning algorithms.
- Developed a web application with FastAPI and Streamlit to allow users to input movie descriptions and receive genre predictions.

Achievements

- Improved fraud detection system accuracy, significantly reducing false positives and negatives.
- Successfully deployed machine learning models into production environments, enhancing business processes.

Extracurricular Activities

- Participated in university hackathons and coding competitions, showcasing innovative solutions to real-world problems.
- Member of the university's Computer Science Club, actively involved in organizing workshops and seminars on emerging technologies.

Letter of Recommendation

A detailed letter of recommendation from Codclause Inc. is available upon request, highlighting my technical skills, project contributions, and team collaboration.

Professional Summary

Dedicated and analytical data analyst with practical experience in data analysis and machine learning. Skilled in Python programming, data visualization,Data Analytics and software development. Passionate about extracting meaningful insights from data and contributing to impactful projects.