Sibi Krishnamoorthy

Data Science & Machine Learning Enthusiast

Vaniyambadi, Tamil Nadu,635754, India

Email: sibikrish3000@gmail.com Phone: +91 9751680074

LinkedIn: linkedin.com/in/sibikrish3000

Professional Summary

Aspiring Data Scientist with strong foundations in machine learning, deep learning, and data analysis. Experienced in implementing and deploying models using Python, PyTorch, and TensorFlow. Proficient in interpreting research papers, reproducing foundational models, and building scalable AI solutions. Passionate about applying data-driven techniques to solve complex real-world problems.

Education

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

Relevant Coursework: Deep Learning, Machine Learning, Data Structures, Algorithms, Big Data Analytics, Software Design, Agile, Recommender Systems, NLP, Database Management

---

Work Experience

Machine Learning Intern
CodSoft, India
June 2024 - July 2024

- Built and deployed deep learning models using PyTorch and TensorFlow for real-world projects in spam detection, fraud detection, and movie genre prediction.
- Implemented TF-IDF, Naive Bayes, Random Forest, and Neural Networks with continuous training pipelines using MLOps principles.
- Collaborated on end-to-end ML pipelines, deploying models using FastAPI and Streamlit.
- Actively participated in literature reviews and adapted open-source research implementations into production code.

Data Science Intern
CodeClause, India
March 2024 - April 2024

- Developed a real-time credit card fraud detection system using logistic regression, neural networks, and ensemble methods.
- Applied data preprocessing, feature engineering, and hyperparameter tuning techniques to enhance model performance.
- Focused on minimizing false positives through iterative evaluation and validation.

Assistant Secretary – Placement Cell
Annamalai University, India
May 2023 - July 2024

- Facilitated student-employer engagement, placement drives, and technical sessions.
- Developed communication channels between academia and industry partners

---

Technical Skills

- **Languages**: Python 3.x, Java, C++, SQL
- **Deep Learning Frameworks**: PyTorch, TensorFlow, Keras
- **ML Tools & Libraries**: Scikit-learn, NumPy, Pandas, SciPy
- **Research & Reproducibility**: Git, CI/CD, Literature Survey, Research Paper Implementation
- **Data Engineering & Big Data**: Hadoop, Apache Spark, Cassandra, Hive
- **Databases**: PostgreSQL, MongoDB, Redis, Oracle, SQLite
- **Cloud Platforms**: AWS, Azure, Google Cloud Platform
- **Visualization**: Matplotlib, Seaborn, Plotly, Tableau, PowerBI
- **Web Tech & Deployment**: FastAPI, Streamlit, Flask, Docker, Kubernetes

---

Certifications

- **Python for Data Science** – IBM, NPTEL
- **Introduction to Large Language Models** - Google
- **Introduction to Generative AI** - Google
- **Google Analytics for Beginners** - Google
- **Python for Beginners** - Simplilearn
- **R Programming Guide for Beginners** - Eduonix
- **C++ Programming from Scratch to Advance** - Udemy

Projects

SMS Spam Detection

- Trained a Multinomial Naive Bayes model with TF-IDF features. Achieved 95% precision.
- Enabled retraining based on user feedback, simulating online learning pipelines.

Credit Card Fraud Detection

- Implemented a fraud prediction engine using deep neural networks and isolation forests
- Applied EDA and data visualization techniques to uncover fraud patterns.

Foundational Movie Genre Classification

- Developed a multi-label classifier using NLP embeddings and deep learning to identify movie genres from descriptions.
- Reproduced research architecture using PyTorch and validated with custom datasets.
- Integrated with FastAPI and Streamlit for live demo deployment

---

Achievements

- Improved fraud detection model accuracy by 15% by reducing false positives.
- Regularly participate in university-level hackathons and technical paper discussions.
- Active member of the university's Computer Science Club, organizing workshops and deep learning seminars.

Letter of Recommendation

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