

SIBIRAJ S

IT fresher with strong skills in Python, Data Science, and Machine Learning, seeking an entry-level role.

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EDUCATION

Global Institute of Engineering and Technology, Ranipet **2020-2024**

Bachelor of Engineering – Electronics and Communication Engineering **CGPA- 8.56**

N.K.M Hr. Sec. School, Vellore **2018-2020**

HSC - Mathematics – Computer Science **Percentage- 70.17%**

PROFESSIONAL EXPERIENCE

Infosys - Mahindra City, Chengalpattu **AUG 2025**

Artificial Intelligence Intern

- Trained in Python, Data Science, and ML fundamentals.
- Worked on capstone projects involving dataset preprocessing, EDA, and model development.
- Built ML models using supervised/unsupervised techniques and evaluated their performance.

PROJECTS

Machine Learning Capstone — Employee Attrition Prediction **NOV 2025**

Tech Stack: Python, Scikit-Learn, Pandas, NumPy, Seaborn, Matplotlib

- Analyzed HR attrition dataset to identify factors influencing premature exits.
 - Performed EDA, evaluated dataset readiness, and validated feature relationships.
 - Studied satisfaction level vs work hours, department impact, salary, and promotion history.
 - Built Logistic Regression, Linear Model, and Random Forest classifiers.
 - Compared accuracy, ROC curves, and confusion matrices to assess performance.
- Outcome: Random Forest achieved the highest accuracy and provided interpretable feature importance insights for retention.

Time Series Forecasting – Airline Passenger Prediction(ARIMA & SARIMAX) **OCT 2025**

Tech Stack: Python, Statsmodels, Pandas, NumPy, Matplotlib

- Conducted time-series decomposition to understand trend, seasonality, and residuals.
 - Performed ADF stationarity tests, differencing, and ACF/PACF analysis for order selection.
 - Implemented ARIMA baseline model and evaluated forecasting limitations.
 - Upgraded to SARIMAX to model strong monthly seasonality.
 - Compared models using MAE, MSE, RMSE, and visualized forecast trajectory.
- Outcome: SARIMAX outperformed ARIMA, accurately capturing seasonal peaks in passenger volume.

Demographic Earnings Potential — Exploratory Data Analysis
Tech Stack: Python, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib

SEP 2025

- Cleaned demographic dataset by removing missing values and outliers (IQR).
 - Analyzed the influence of weekly working hours on earning potential.
 - Identified correlated features using Pearson correlation and heatmaps.
 - Investigated relation between years spent on education and earnings.
 - Explored age vs earning potential through scatter/KDE-based distributions.
- Outcome: Revealed positive relationships between work hours, education investment, and income brackets.

AI – Resume Analyzer (Personal Project)

MAY 2025

Tech Stack: Python, Django, spaCy, Hugging Face, HTML, CSS, Git, Render

- Developed a web application to extract resume text and match skills against job descriptions.
 - Built NLP pipelines using spaCy + Transformers for entity & skill extraction.
 - Implemented matching logic using semantic embedding similarity.
 - Deployed app on Render with version control on GitHub.
- Outcome: Reduced manual hiring effort by automating core screening steps.

Automated Weather Classification using Transfer Learning – IBM Course

MAR 2023

Tech Stack: Python, TensorFlow, Keras, Transfer Learning [VGG 16]

- Built an image classifier using pre-trained CNN architectures.
 - Applied transfer learning and fine-tuning to recognize weather states.
- Outcome: Achieved high multi-class accuracy with significantly reduced training time.

SKILLS

Programming languages: Python, Java, C, C# [Unity Game Engine], JavaScript [Learning]

Frameworks/Libraries: Django, React, Scikit-learn, numpy, pandas, Tensorflow, Pytorch, Keras

Database: PostgreSQL, MySQL

Languages: Tamil, English

CERTIFICATIONS

TCS iON NQT - IT Career Readiness: 75% (12/2024)

Courses - AI & Machine Learning [IBM] || Networking Essentials & Big Data Analytics [Naan Mudhalvan] || Java Fundamentals, Python Fundamentals, Python for Data Science & Machine learning Algorithms [Infosys Springboard]

Interests - Game Development (Unity, C#), AI/ML, Exploring Tech, Programming & Debugging

Typewriting Junior Grade - English (Distinction)