

# SIBIRAJ S

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

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## EDUCATION

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<b>Global Institute of Engineering and Technology, Ranipet</b>	<b>2020-2024</b>
<i>Bachelor of Engineering – Electronics and Communication Engineering</i>	<b>CGPA- 8.56</b>
<b>N.K.M Hr. Sec. School, Vellore</b>	<b>2018-2020</b>
<i>HSC - Mathematics – Computer Science</i>	<b>Percentage- 70.17%</b>

## PROFESSIONAL EXPERIENCE

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<b>Infosys - Mahindra City, Chengalpattu</b>	<b>AUG 2025</b>
<i>Artificial Intelligence Intern</i>	
<ul style="list-style-type: none"><li>• Trained in Python, Data Science, and ML fundamentals.</li><li>• Worked on capstone projects involving dataset preprocessing, EDA, and model development.</li><li>• Built ML models using supervised/unsupervised techniques and evaluated their performance.</li></ul>	

## PROJECTS

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<b>Machine Learning Capstone — Employee Attrition Prediction</b>	<b>NOV 2025</b>
<i>Tech Stack:</i> Python, Scikit-Learn, Pandas, NumPy, Seaborn, Matplotlib	
<ul style="list-style-type: none"><li>• Analyzed HR attrition dataset to identify factors influencing premature exits.</li><li>• Performed EDA, evaluated dataset readiness, and validated feature relationships.</li><li>• Studied satisfaction level vs work hours, department impact, salary, and promotion history.</li><li>• Built Logistic Regression, Linear Model, and Random Forest classifiers.</li><li>• Compared accuracy, ROC curves, and confusion matrices to assess performance.</li></ul> <p>Outcome: Random Forest achieved the highest accuracy and provided interpretable feature importance insights for retention.</p>	

<b>Time Series Forecasting – Airline Passenger Prediction(ARIMA &amp; SARIMAX)</b>	<b>OCT 2025</b>
<i>Tech Stack:</i> Python, Statsmodels, Pandas, NumPy, Matplotlib	
<ul style="list-style-type: none"><li>• Conducted time-series decomposition to understand trend, seasonality, and residuals.</li><li>• Performed ADF stationarity tests, differencing, and ACF/PACF analysis for order selection.</li><li>• Implemented ARIMA baseline model and evaluated forecasting limitations.</li><li>• Upgraded to SARIMAX to model strong monthly seasonality.</li><li>• Compared models using MAE, MSE, RMSE, and visualized forecast trajectory.</li></ul> <p>Outcome: SARIMAX outperformed ARIMA, accurately capturing seasonal peaks in passenger volume.</p>	

## **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**

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**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**

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**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)