



RACHEL NALLATHAMBY

SENIOR DATA SCIENTIST 📍 CHENNAI, 600010, INDIA ☎ 09841313799

◦ DETAILS ◦

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Date / Place of birth

23/04/1985
Chennai

Nationality
Indian

◦ LINKS ◦

[LinkedIn](#)
[Github](#)

◦ SKILLS ◦

SQL

Tensorflow

Python

R



PROFILE

A dynamic and data-driven Data Scientist with a strong command over vital tools and programming languages such as Python (including pandas, sklearn, matplotlib, seaborn, numpy), along with demonstrated prowess in Data Visualization. Proficient in ETL processes with Visual Studio, and Jupyter Lab, and well-versed in Version Control Systems like GitHub. Experienced with handling databases like SQL, and MongoDB.



EMPLOYMENT HISTORY

Professor/Project Head at Saveetha University, Chennai

July 2022 — April 2023

1. Responsible for generating proof of concepts, fine-tuning various AI models, and creating data visualizations to enhance solutions.
2. Accelerated decision-making by 30% through the creation and refinement of clear and insightful data visualizations
3. Worked with a team of 5 members on diverse projects, expanding skills in coding, analytics, and machine learning

Data Researcher/Analyst at Computational Intelligence Research Foundation, Chennai

January 2022 — June 2022

1. Responsible for Implementing automation solutions for repetitive tasks across the organization, enhancing operational efficiency.
2. Leveraged Pandas and SQL for efficient data handling and analysis
3. Integrated the latest AI industry advancements constantly, achieving a 20% improvement in model performance annually
4. Led a team of 3 interns, fostering a work environment that boosted productivity by 30%

Research Assistant/ Technical Writer at Sri Sairam Engineering College(Affiliated to Anna University), Chennai

June 2013 — January 2022

PROJECTS:

1. YahooTickerTrend:

- **Model Type:** Linear Regression, SARIMAX
- **Purpose:** Forecasting daily stock prices of Yahoo Finance
- **Data Source:** Yahoo Finance
- **Key Features:** economic indicators, daily returns
- **Training and Validation:** 5- fold cross validation
- **Software and Tools:** Python (statsmodels, pandas, numpy)
- **Results:** Achieved a 15% reduction in RMSE compared to a baseline ARIMA model.

Github Link:

https://github.com/lilrachel1985/Regression/blob/main/SARIMAX_Stock_Price.ipynb

2. CancerAware Pro:

- **Model Type:** Logistic Regression, XGBClassifier
- **Purpose:** Early detection and risk assessment

- **Data Source:** National Cervical Cancer Registry
- **Key Features:** Age, HPV status, cytology results, medical history
- **Training and Validation:** 10-fold cross-validation
- **Software and Tools:** Python (scikit-learn, pandas, numpy), keras
- **Results:** Improved early detection accuracy by 15% compared to existing methods.

Github Link :

https://github.com/lilrachel1985/Cancer/blob/main/cervicalcancer_KerasNN1.ipynb



EDUCATION

PhD, Anna University, Chennai

June 2013 — January 2022

PhD in Computer Science. Graduated with a 8.0 (First Class with Distinction) and published many papers in reputed journals.

M Tech, Anna University Coimbatore, Coimbatore

July 2007 — April 2009

M.Tech in Information Technology. Graduated with a 8.6 cgpa First Class with Distinction and was an enthusiastic participator in college debates and classroom activities.

B Tech, Jaya Engineering College (Anna University), Chennai

July 2002 — May 2006

Graduated with a percentage of 73 % First Class



COURSES

Convolutional Neural Networks in Tensorflow, Coursera

November 2022

Introduction to Tensorflow for Artificial Intelligence, Machine Learning and Deep Learning, Coursera

September 2022

NoSQL Databases Essentials, Coursera

May 2022

Cloud Computing, MSME

October 2015

Applied AI: Getting Started with Hugging Face Transformers, LinkedIn

July 2023

Machine Learning Data Life Cycle in Production, DeepLearning.AI

June 2023

Machine Learning Modelling Pipelines in Production, DeepLearning.AI

June 2023