


G. VIGNESHKUMAR

Fresh Graduate

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 134/127 Madasamy Kovil North Street, Rajapalayam – 626117,
Virudhunagar District, Tamil Nadu

PROFILE SUMMARY

Recent B.Sc. Computer Science graduate with hands-on machine learning experience. Developed a health insurance cost prediction system achieving 81.3% accuracy using real-world data. Strong programming foundation in Python, C++, Java, and SQL with proven problem-solving abilities

EDUCATION

Bachelor of Science in Computer Science | 2022 - 2025

Arulmigu Kalasalingam College of Arts and Science, Krishnankoil | **CGPA: 7.5/10**

Higher Secondary Certificate | 2020 - 2022

SRB A.K.D. Dharmaraja Boys HSS, Rajapalayam | **78%**

TECHNICAL SKILLS

Programming: Python, Java, C++, C, PHP, SQL

Web Technologies: HTML5, CSS, JavaScript

Databases: MySQL, Oracle

ML & Data Science: Scikit-learn, Pandas, NumPy, Linear Regression, Random Forest

Tools: Windows, Linux.

MAJOR PROJECT

Medical Insurance Cost Prediction System

Tech Stack: Python, Machine Learning | **Type:** Individual Academic Project

Overview: Developed ML system to predict health insurance costs addressing post-COVID healthcare cost estimation needs.

Key Achievements:

- Implemented **Multinomial Logistic Regression** and **Random Forest** algorithms
- Processed **1,338 medical records** from USA Medical Cost Dataset (Kaggle)
- Achieved **95% prediction accuracy** through systematic optimization
- Applied **Linear Regression** for cost-factor relationship analysis
- Used **70-30 train-test split** for model validation

Technical Work:

- Feature engineering on Age, Gender, BMI, Smoking habits, Children count
- Statistical analysis of medical cost correlations with personal factors
- Comparative algorithm performance analysis
- Data preprocessing and visualization for model interpretability

Impact: Demonstrated practical healthcare cost estimation application relevant to current insurance market.

KEY COMPETENCIES

- **Problem-Solving:** Delivered end-to-end ML project with measurable results
 - **Self-Learning:** Mastered Python libraries and ML concepts independently
 - **Leadership:** Organized departmental events (Fresher's Day, Association programs)
 - **Teamwork:** Active participant in cultural events and group activities
 - **Communication:** Fluent in English & Tamil, technical presentation experience
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EXTRACURRICULAR ACTIVITIES

- **Event Management:** Led departmental functions and college programs
 - **Sports:** Cricket player with team collaboration skills
 - **Cultural:** Active participant in college events and competitions
 - **Martial Arts:** Silambam (Traditional Tamil martial art) practitioner
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ADDITIONAL INFORMATION

Availability: Immediate

Languages: English (Fluent), Tamil (Native) | **DOB:** December 8, 2004

DECLARATION

I hereby declare that all information mentioned above is true and accurate to the best of my knowledge.

Place: Rajapalayam

[G. Vigneshkumar]