

EDUCATION

Karpagam College of Engineering Anna University Coimbatore	Year: 2027	GPA: 8.66 III
S.B.O.A Matriculation Hr. Sec. School HSC Coimbatore	Year: 2023	GPA: 7.8
S.B.O.A Matriculation Hr. Sec. School SSLC Coimbatore	Year: 2021	PASS

SKILLS SUMMARY

Languages: Python, Java, JavaScript, Bootstrap, HTML, CSS, SQL

Frameworks: Pandas, NumPy, TensorFlow, Keras, Scikit-Learn, Matplotlib, Seaborn

Data Visualization Tools: PowerBi

Platforms: Google Colab, MongoDB, Visual Studio Code, Kaggle, Docker, GitHub, Jenkins

Soft Skills: Excellent Communication, Teamwork, Leadership, Critical Thinking, Analysis.

KEY PROJECTS

AI-Powered Mental Health Chatbot ("Mindful Companion")

[Apr '25]

- Architected a full-stack AI chatbot (LLM, RAG, Python, JavaScript) for empathetic mental health support and critical crisis detection.
- Engineered RAG-informed LLM backend for context-aware dialogue and crisis intervention; frontend featured TTS/STT for accessible voice interaction.
- Delivered a solution focused on supportive, coherent, and safety-oriented user conversations.

Crop water Requirement prediction Using Machine Learning

[Jan '25]

- Developing an ML system to predict optimal irrigation schedules based on plant water needs and soil retaining capacity.
- Incorporating machine learning to forecast water volume, aiming to improve water resource management and agricultural product

Customer Churn Prediction using XAI

[Apr '25]

- Developed a Flask web app for real-time customer churn prediction, integrating a pre-trained XGBoost model and scikit-learn scaler.
- Implemented SHAP for XAI, visualizing top 5 feature impacts on individual churn predictions via an HTML/CSS interface.
- Engineered a data preprocessing pipeline (label encoding, scaling) and Python/Flask backend for consistent feature transformation and XAI.

CERTIFICATIONS

- Introduction to Machine Learning [NPTEL] [Nov '24]
- Qlik Sense Business Analyst Qualification [Sep '24]
- Crash Course on Python [Google-Coursera] [July '23]

ACHIEVEMENTS

- Finalist – K-Eureka Business Model Idea Pitching [Sept '24]
- B2 – Speaking in Lingua Skill Test [May '24]
- Currently Ranking 9th position in the Dream11 IPL Gameathon. [May '25]
- 1st Prize in painting, Star Creative Arts -International Level [May '17]
- 3rd Prize in Debate Competition – Orator's club [Mar '25]

INTERNSHIPS

MACHINE LEARNING- INTERN | Prodigy (1 month)

[Nov '24]

- Completed five hands-on machine learning tasks, including prediction and customer segmentation using K-means clustering.
- Applied Python libraries (NumPy, Pandas, Scikit-learn) to analyze data, build models, and implement clustering techniques.
- Gained expertise in data preprocessing, feature engineering, and algorithm evaluation.
- Delivered actionable insights through project-based learning and practical application.

EXTRA-CURRICULAR ACTIVITIES

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| Clubs | • District Priority Projects Chair, Rotaract Club of Karpagam College of Engineering |
| Social | • Hosted and anchored Anna university tournaments, Rotaract events |
| Fine Arts | • Sang in many on stage events at Karpagam College of Engineering |
| Sports | • 1 st Prize in Badminton (KCE sports meet) |

