



Examination	University	Institute	Year	CGPA
B TECH	Anna University	Karpagam College of Engineering	2026	8.03
HSC	State Board	St Antonys Higher Secondary School	2022	7.08
SSLC	State Board	Timbre Tops Matriculation School	2020	6.95

SKILLS SUMMARY

**Languages:** Python, Java  
**Frameworks:** NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib, Keras, Spark, Hadoop, Streamlit.  
**Tools:** Tableau, PowerBI, MySQL, MongoDB, Git, Github, Docker.  
**Platforms:** Jupyter Notebook, Visual Studio Code, IntelliJ, Eclipse, Google Colab.  
**Web Development:** HTML, CSS, JavaScript, React, Node.js, Figma.

KEY PROJECTS

- CHATTY - Full Stack Realtime Chat App | MERN Stack Developer**

[Feb 2025 – Present]

  - **Description:** Developed a real-time chat application using MERN stack with Socket.IO integration for **instant messaging** and **user presence tracking** with a **REST API** backbone.
  - **Role:** Full Stack Developer, responsible for implementing both frontend and backend functionality with secure authentication and ensuring alignment with **Business Requirements** and **Technical Requirements**.
  - **Outcome:** Implemented JWT authentication and real-time messaging with **Socket.IO**, Achieved seamless deployment with proper **backend-frontend integration**, Enabled online/offline status tracking for users.
- Data Version Control System | (Team Member)**

[Mar 2024-May 2024]

  - **Engineered a Git-integrated Data Version Control (DVC) system**, enabling efficient dataset tracking, versioning, and rollback capabilities across data-driven workflows, ensuring adaptability in a **Changing Environment**.
  - **Enhanced collaborative workflows** by enabling **parallel versioning, access control mechanisms, and metadata tracking**, ensuring efficient data governance and compliance.
  - **Strengthened data lineage tracking and access control** by leveraging **Git hooks, commit history auditing, cryptographic hashing, and metadata versioning**, ensuring **immutability, traceability, and regulatory compliance** in data workflows.
- Vehicle Routing Problem Optimization Using Genetic Algorithm | Self Project**

[Dec 2024 – Jan 2025]

  - **Objective:** Developed a **Genetic Algorithm (GA)** using DEAP to solve the **Vehicle Routing Problem (VRP)**, optimizing delivery routes through **crossover, mutation, and selection** with an emphasis on **Technical** implementation.
  - Reduced operational costs by **30%**, greatly improving delivery efficiency with a scalable algorithm design approach.
  - Applied key insights from a **Maze Solver Project**, successfully leveraging GA techniques for shortest-pathfinding solutions.
  - Delivered a robust solution using **Python** and **DEAP**, enabling efficient, adaptive logistics optimization processes.
- Dimensionality Reduction with K-Means and Gaussian Naive Bayes | Self Project**

[Jan 2025 – Feb 2025]

  - Built a classification pipeline using **Python** and **Scikit-learn** to analyze human activity data from smartphone sensors.
  - Applied **K-Means clustering** for dimensionality reduction, improving model efficiency and achieving an accuracy of **81%**.
  - Reduced training and inference time by **83.7%** through feature selection and optimization techniques.

CERTIFICATIONS

- **Qlik** – Business Analyst Qualification
- **NPTEL** – Python for Data Science | Data Analytics with Python | Cloud Computing | Big Data Computing (Elite)

EXTRA-CURRICULAR ACTIVITIES

- Participated in **Workshop on AI and ML Models**.

[12 Apr '22]
- Participated in **Paper Presentation on Emerging Technologies**.

[22 Oct '24]
- Solved **350+ DSA problems** on **LeetCode**.