

PREETHA VJ
B. TECH ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
KARPAGAM COLLEGE OF ENGINEERING
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Examination	University	Institute	Year	CGPA(%)
Graduation	Anna University	Karpagam College Of Engineering	2027	8.78
HSC	State Board	Cluny Matric Hr SecSchool	2022	8.0
SSLC	State Board	Meenampark Matric Hr Sec School	2020	Pass

SKILLS SUMMARY.

Languages: Python, Java, HTML, CSS, JavaScript, R(basics), C(basics), C++ (basics).

Frameworks: Pandas, Num Py, Tensor Flow, Kera's, Scikit-Learn, Matplotlib and Seaborn, Flask.

Data Visualization Tools: Tableau, Power Bi, Qlik Sense, MS-Office.

Platforms: GoogleCollab, Visual Studio Code, Qlik Sense, Kaggle, Docker, GitHub and Jupyter notebook.

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

KEY PROJECTS.

Cardio Vascular disease Prediction

[Nov'24]

Built a machine learning model to predict cardio vascular disease using NumPy, Pandas, and Scikit-learn.

- Conducted extensive data preprocessing and feature engineering to improve prediction accuracy.
- Evaluated multiple ML algorithms to identify the most effective approach.

Air Quality Prediction

[Dec'24]

Analyzed historical data on air and predicted the quality by deploying it using MLOps.

- Created predictive models and visualized patterns with Matplotlib and Seaborn.
- Designed real-time web application by deploying it using Flask as API.

Water Quality Prediction

[Dec'24]

Developed a model to predict water quality in real-time using statistical approach and machine learning.

- Used Statistical approaches like measures of central tendency and dispersion to predict the water quality.
- Used machine learning algorithms to find the accuracy and PCA to reduce the dimensionality of the features.

AI-Powered Research Assistant

[April'25]

Built an interactive Streamlit-based AI assistant to summarize and analyze uploaded research papers in PDF format.

- Developed an AI-driven web app to summarize research papers and auto-generate citations from PDFs using Streamlit and PyMuPDF.
- Enabled real-time academic insights with a user-friendly drag-and-drop interface and NLP-powered summarization.

Customer Churn Prediction using XAI

[Mar'25]

- Built a transparent customer churn prediction model using Explainable AI (XAI), empowering business.
- Deployed churn predictions with flask, enhancing decision-making with clear, interpretable SHAP values.

CERTIFICATIONS

- Business Analyst Qualification|QLIK| [Oct'24]
- Completion of RDBMS postGre SQL training with 82.5% |Spoken tutorial project at IIT Bombay| [Nov'23]
- Completion of Java test with 77.5%|Spoken tutorial project at IIT Bombay| [Mar'25]

AWARDS AND ACHIEVEMENTS

- Finalist-K-Eureka Business Model Idea Pitching. [Sept'24]
- Awarded for paper presentation-Orator's club. [23-24]

INTERNSHIP

JAVA DEVELOPMENT-INTERN |OctaNet Services (1month)

[Oct'23]

- Completed JAVA DEVELOPMENT internship, where I worked on an JAVA project.
- Gained hands-on experience in developing an ATM machine code.
- Focusing on functionality like importing libraries and the working of the machine.