

PREETHA VJ  
B.TECH ARTIFICIAL INTELLIGENCE AND DATA SCIENCE  
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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]

## AWARDSANDACHEIEMENTS

- 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.