

# Preetham H

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## 1 Education

### B.E. in Artificial Intelligence and Data Science

Don Bosco Institute of Technology, Bengaluru, India

11/2022 – 06/2026

CGPA: 8.10/10 (78%)

### Pre-University Course (PCMB)

RNS PU College, Bengaluru, India

07/2020 – 06/2022

Percentage: 82.5%

### SSLC

Theresa Public School, Bengaluru, India

06/2020

Percentage: 90.24%

## 2 Technical Skills

- **Programming Languages:** C, C++, Python, Java, SQL, JavaScript, MongoDB
- **Embedded Systems:** Embedded C/C++, Linux Platform, RTOS Basics
- **Developer Tools:** Git, VS Code, DataGrip, IntelliJ IDEA, Debuggers, Emulators
- **Frameworks & Technologies:** FastAPI, Django, NodeJS, ExpressJS, Google Test Framework, Static Code Analysis Tools
- **Data Science & Engineering:** Machine Learning, NLP, Data Pipelines, Data Quality Assurance, Power BI, Tableau

## 3 Projects

### 3.1 Resume Ranker Using Machine Learning (Python, Scikit-learn, NLP)

2024

- Developed an NLP-based resume ranking system using Python and Scikit-learn, achieving 90% classification accuracy for job description matching.
- Implemented TF-IDF vectorization for efficient text analysis and data preprocessing pipelines.
- Deployed system using Flask, enabling scalable backend integration for real-time processing.
- GitHub Repository

### 3.2 Data Pipeline Optimization (Python, Airflow, SQL)

2024

- Designed automated data pipelines with Python and Airflow, processing 10,000+ records daily for machine learning applications.
- Implemented SQL-based data quality checks, reducing inconsistencies by 15%.
- Collaborated with analytics team to ensure robust data integration and system reliability.

### 3.3 Embedded System Debugging (C++, Linux)

2023

- Developed and debugged C++ applications on Linux, using emulators and debuggers to ensure code reliability.
- Conducted static code analysis to identify and resolve potential code vulnerabilities, improving system performance.
- Applied unit testing with Google Test Framework to achieve 95% test coverage.

## **4 Internship**

### **4.1 API Developer, ACE Horse, Bengaluru, India**

12/2022 – 03/2023

- Developed and optimized RESTful APIs using FastAPI and Django, reducing system response time by 25%.
- Implemented automated testing pipelines with 98% API reliability, ensuring robust performance.
- Collaborated with data teams to integrate APIs with core platforms, supporting real-time data processing.

## **5 Certifications**

- Machine Learning with Python, Coursera, 2024
- SQL for Data Science, Coursera, 2023
- Command Line in Linux, Coursera, 2023
- MongoDB Basics, MongoDB University, 2023

## **6 Extracurricular Activities**

- Member, AI and Data Science Club, Don Bosco Institute of Technology
- 3rd Prize, State-Level Yoga Competition, Bengaluru, 2017