

# KEERTHANA S

Karaikal, Puducherry

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## PROFESSIONAL SUMMARY

Disciplined and motivated engineering student with strong interest in emerging technologies. Possesses foundational knowledge in programming, machine learning, and NLP gained through internships and project experience. Eager to apply skills in real-world projects while continuously learning and adapting to new technologies.

## EDUCATION

### B.Tech in Information Technology

2022 – 2026

Perunthalaivar Kamarajar Institute of Engineering and Technology, Puducherry

CGPA: 8.69 / 10

### Higher Secondary (HSC)

2022

Regional Perfect Higher Secondary School, Percentage: 85%

### Secondary School (SSLC)

2020

Regional Perfect Higher Secondary School, Percentage: 97.4%

## INTERNSHIPS

### Machine Learning Intern – National Institute of Technology, Karaikal (4 Weeks)

- Gained foundational understanding of machine learning concepts and data handling techniques.
- Learned to identify suitable algorithms for domain-specific applications such as healthcare.
- Developed skills in reading and understanding ML research papers.

### Java Intern – SkillSync (2024)

- Developed and tested Java programs following object-oriented principles.
- Practiced debugging, problem-solving, and code optimization techniques.
- Collaborated with peers to enhance coding efficiency and foundational programming skills.

## PROJECT

### Text Summarization Web Application

- Developed a comprehensive text summarization system in **Python** using **BERT** and **BART** pre-trained models for NLP tasks.
- Designed multiple output formats including simple English, key points, and exam revision notes.
- Implemented adjustable word limits (500 to 200 words) for flexible summaries.
- Integrated **Flask** for web deployment and **ReportLab** for downloadable PDF outputs.
- Utilized **Sumy** and **NLTK** for text preprocessing and **TextRank** for extractive summarization.
- Evaluated model performance using **ROUGE metrics** to ensure high-quality summaries.
- Gained practical experience in data preprocessing, tokenization, model deployment, and result optimization.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Java (Basic), Python (Basic), HTML, CSS, JavaScript

**Machine Learning & NLP:** Natural Language Processing, Text Summarization, Abstractive & Extractive Techniques

**Frameworks & Libraries:** Flask, Hugging Face Transformers, BART, NLTK, Sumy, Flask-CORS

**Tools & Platforms:** Google Colab, VS Code

## AREAS OF INTEREST

Data Analysis, Artificial Intelligence, Machine Learning, Web Development