

# Francis Johan M

Final Year Engineering Student | Computer Science Engineering

Tirunelveli, Tamil Nadu, India

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## Professional Summary

Final-year Computer Science Engineering student with hands-on experience in **Python, Full-Stack Development, and AI/ML**. Built real-world applications involving NLP, cloud automation, and secure systems. Patent holder and published researcher seeking software or AI-focused roles.

## Technical Skills

**Programming:** Python, C (Basics), C++ (Basics)  
**Web:** HTML, CSS, React  
**Backend:** Flask, REST APIs  
**Databases:** MongoDB, Firebase, MySQL  
**AI/ML:** NLP, BART Model, Hugging Face Transformers  
**LLM & Prompting:** Prompt Engineering, LLM-based Automation  
**Tools:** AWS, Git/GitHub, Docker (Learning), VS Code

## Projects

<b>SmartDoc Summarizer (AI/ML)</b> <ul style="list-style-type: none"><li>Developed an AI-powered document summarization system using BART NLP model</li><li>Supports PDF, DOCX, and TXT files with real-time processing</li><li>Integrated Firebase Authentication and Firestore</li></ul>	Python, Streamlit, Firebase
<b>Oracle Forensic System (AI/ML)</b> <ul style="list-style-type: none"><li>Built an AI-powered forensic investigation platform for accident analysis</li><li>Applied YOLOv8 for object detection and BLIP for image captioning</li><li>Dockerized backend with MongoDB Atlas</li></ul>	Flask, YOLOv8, BLIP, Docker
<b>Student Result Management System</b> <ul style="list-style-type: none"><li>Designed a secure portal with admin and student modules</li><li>Automated PDF result generation using ReportLab</li></ul>	Flask, MongoDB

## Experience

<b>Software Engineer Intern — Skillrank</b> <ul style="list-style-type: none"><li>Automated vehicle data entry workflows using AWS services</li><li>Implemented LLM-based automation for intelligent processing</li><li>Collaborated with an international remote team (USA)</li></ul>	Jul 2025 – Aug 2025
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## Patent & Publication

<b>Patent: Animal Sound Based Audiometry Testing System</b> Patent No: <b>IN 202441022012</b>	Mar 2024
<b>Publication: SmartDoc Summariser AI</b> International Journal of Scientific Research and Engineering Development Paper ID: <b>IJSRED-V8I2P436</b>	May 2025

## Education

<b>Higher Secondary &amp; SSLC</b> Andrews Matric Higher Secondary School	
<b>B.E — Computer Science Engineering</b> Francis Xavier Engineering College, Tirunelveli	2022 – 2026

## Languages Known

Tamil (Native) • English (Professional)