

# RAYYAN A

BE CSE STUDENT | AIML Specialization

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## Professional Summary

Innovative and results-driven Computer Science Engineer pursuing a BE with Honors and Specialization in Artificial Intelligence and Machine Learning, proficient in Java, Python, and SQL, with expertise in AI model development and data analytics. Passionate about leveraging emerging technologies to optimize systems, drive data-driven solutions, and enhance efficiency.

## Education

### BE Computer Science & Engineering

KPR Institute of Engineering and Technology, Coimbatore  
2022-2026  
CGPA: 8.43/10

### Higher Secondary Education

PMGHSS -(96.5%)  
**Secondary Education**  
BMHSS -(100%)

## Experience

### Intern - EduPhoenix Solutions Pvt Ltd, Bangalore

(25/01/2024 – 25/02/2024)

- Completed intensive training in Data Science with Python, mastering statistical modeling and ML techniques.
- Formulated AI/ML models, optimizing predictive performance and achieving a 95% accuracy improvement.
- Designed a highly efficient loan approval classification model, reaching 92% accuracy using a Naïve Bayes classifier.

### AI ML Intern - Reccsar Private Limited, Madurai

(20/01/2025 – 28/02/2025)

- Gained expertise in AI model development, neural networks, and deep learning frameworks.
- Engineered an NLP-driven chatbot, improving response accuracy by 40% using state-of-the-art language models.

## Projects

### Project-1: MediSense – AI-Powered Medical Assistant

- Engineered an AI-driven chatbot utilizing **NLP and RAG-based retrieval** for precise medical query resolution.
- Achieved **90% response accuracy**, enhancing reliability and decision-making support.
- Integrated a **medical report summarization module**, streamlining data interpretation for quicker insights.

### Project-2: Loan Approval Prediction

- Designed a **Naïve Bayes** model for loan approval prediction, achieving **85% accuracy**.
- Built an interactive **Streamlit** web application, enhancing user engagement.

### Project-3: TEDXplore – AI-Powered TED Talks Recommendation System

- Created **TEDXplore**, a content-based recommendation system for TED Talks.
- Leveraged **TF-IDF & Cosine Similarity** to analyze and suggest relevant talks.
- Crafted an interactive web app using **Python & Streamlit** for a seamless experience.
- Optimized text processing techniques to enhance recommendation accuracy.

## Skills & Languages

### Skills

- Programming:** Java, Python, C, SQL
- Machine Learning:** Scikit-learn, TensorFlow, NLP, RAG
- Data Science:** pandas, Matplotlib, Seaborn, Tableau, Power BI
- Web Development:** HTML, CSS, JavaScript, React.js
- Databases:** SQL, NoSQL
- Cloud & Devops:** AWS & Docker

### Languages

- English (Advanced)
- Hindi (Advanced)
- Malayalam (Native)
- Tamil (Advanced)

## Certifications & Achievements

- Natural Language Processing - NPTEL (2025)
- Learning Analytics Tools - NPTEL (2024)
- Data Analytics with Python - NPTEL (2024)
- Data Science Fundamentals - IBM (June 2023)
- Introduction to NoSQL Databases - IBM (Oct 2023)
- Data Visualization with Tableau - UC Davis (Sep 2023)
- Preparing Data for Analysis with Excel - Microsoft (Sep 2023)
- Career Essentials in Generative AI - Microsoft & LinkedIn (Jul 2024)

### Achievements

- LeetCode 100+ Problems Solved
- Gold Certification in Acquiring Data - NASSCOM (Dec 2022)