

# Rishi Singh

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## PROFESSIONAL SUMMARY

Motivated BTech student specializing in software engineering and artificial intelligence applications. Proficient in Python, Java, and Machine Learning, with experience in developing models for text classification, deepfake detection, and medical image analysis. Skilled in data structures and algorithms, regression techniques, and user-focused application design. Enthusiastic about building intelligent systems with practical real-world impact.

## EDUCATION

<b>VIT Bhopal University</b> <i>BTech in Computer Science and Engineering (AI/ML)</i> – CGPA: 8.12	2023 – 2027
<b>City Montessori School, Mahanagar, Lucknow</b> Class 12th (ISC) – 92.5%	2022
<b>City Montessori School, Mahanagar, Lucknow</b> Class 10th (ICSE) – 91.4%	2020

## TECHNICAL SKILLS

- Programming Languages:** Python, Java
- Machine Learning & AI:** Deep Learning, Regression, Text Classification, Neural Networks
- Development Tools:** Langchain, Agentic Clustering, Streamlit, Git, BERT
- Computer Science Fundamentals:** Data Structures, Algorithms, OOP, DBMS
- Others:** UX Design Principles, OpenCV, Scikit-learn

## PROJECTS

### PIPPO AI Chatbot

Built a multi-purpose AI chatbot capable of real-time query handling, casual conversation, and task-based responses. Integrated BERT and GPT models using Langchain, Agentic Clustering for context memory, and deployed with Streamlit.

### Deepfake Detection Tool

Designed a deep learning-based model to detect deepfakes across audio, image, video, and text formats. Utilized classification models and dataset-specific preprocessing pipelines.

### Medical Eye-Image Analysis

Developed a diagnostic tool for analyzing eye images to predict diseases and estimate spectacle power. Implemented image preprocessing and CNN architectures.

### Text Classification Models

Built machine learning models using Logistic Regression and SVM to classify AI vs human-written content with performance evaluation using accuracy and F1 score.

## ACHIEVEMENTS

Maintained a 345-day streak learning French on Duolingo.

Academic excellence with 90%+ marks in both Class 10 and 12 board exams.

## **EXTRACURRICULAR ACTIVITIES**

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Volunteering experience at orphanages, committed to social responsibility and community development.

Disciplined, health-focused individual with daily habits promoting mental and physical fitness.