Ashutosh Roy

BTech CSE (AI)
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PROFESSIONAL SUMMARY

A BTech CSE student specializing in Artificial Intelligence with a deep passion for mathematics and machine learning. Proficient in leading libraries like TensorFlow, PyTorch, and Scikit-learn, with a strong drive to develop innovative AI solutions that address real-world challenges.

EDUCATION

•**BTech (Honours) in Computer Science - Artificial Intelligence**   *11/2022 - 04/2026*
  CSVTU, Bhilai   CGPA: 8.7

•**12th Science**   *04/2020 - 03/2021*
  St. Columbus School, Haryana   GPA: 8.7

•**10th**   *04/2018 - 03/2019*
  St. Columbus School, Haryana   GPA: 9.4

PROJECTS

•**Music Recognition App**   *06/2024*

  An innovative application designed to identify music tracks from short audio clips.

  – Developed an application that recognizes music tracks and provides detailed track information.
  – Implemented user-friendly interface allowing quick music snippet identification.
  – Deployed on Streamlit: beatbubblefind.streamlit.app
  – GitHub: github.com/ashutoshroy02/SONG-IDENTIFICATION

•**Medical Chatbot Model**   *12/2023 - 02/2024*

  AI-powered chatbot for medical query assistance and report analysis.

  – Developed using QLoRA 4bit - Mistral 7B model, fine-tuned with PyTorch.
  – Implemented PDF analyzer for medical report interpretation.
  – Model available on HuggingFace: huggingface.co/fhai50032/Mistral-4B-FT-2

•**YouTube Playlist Downloader**   *11/2023 - 12/2023*

  Streamlined tool for downloading YouTube playlist videos.

  – Built using PyTube and integrated with Streamlit for user-friendly interface.
  – GitHub: github.com/ashutoshroy02/yt_down

•**Statistical Computation Applications**

  Developed Streamlit applications for statistical computations and data visualization.

  – Created interactive applications including Birthday Facts generator.
  – Implemented Binomial and Poisson distribution calculators.
  – Deployed on Streamlit: mathify.streamlit.app

TECHNICAL SKILLS

Programming Languages: Python, C++, MATLAB
Machine Learning Libraries: TensorFlow, PyTorch, Scikit-learn, Keras, Transformers
Data Visualization: Matplotlib, Power BI
Other Technologies: Streamlit, FlutterFlow, Flutter, OpenCV
Tools: Excel, GitHub
Areas of Expertise: Machine Learning, Artificial Intelligence, Data Analysis