

PRATHAM CHOPRA

Enthusiastic Computer Science graduate specializing in AI and ML with hands-on experience in machine learning models, data analysis, and algorithm optimization. Skilled in problem-solving and proficient in Python. Seeking to apply expertise in innovative AI and ML projects..

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EDUCATION

IIIT + Northeastern University, Bengaluru + Boston —
MPS in Applied Machine Intelligence

2024 - Present

Jain (deemed to be) University, Jayanagara, Bengaluru —
Btech - 8.76 GPA

2020 - 2024

Shree Bhagwan Mahaveer Jain College, VV Puram,
Bengaluru — *12th - 78%*

2019- 2020

BGS Central Schools, karehalli, Bhadravathi — *10th - 72%*

2017 - 2018

EXPERIENCE

FUTURENSE TECHNOLOGIES, Bengaluru — *Data Science Intern*

01/2024-04/2024

- Cleaned and analyzed large datasets from the Indian census, housing, and healthcare sectors, resolving inconsistencies and missing values.
- Created visualizations to inform healthcare policy decisions, including identifying regions with inadequate hospital bed capacity and toilet facilities.
- Analyzed a large dataset of Airbnb listings in Seattle, extracting insights on pricing, amenities, and user reviews.
- Visualized trends and correlations using various plots and heatmaps, identifying key factors affecting listing prices and conducting sentiment analysis of reviews.
- Maintained data accuracy and integrity while handling large datasets.

SKILLS

- Python
- Git
- Data Analysis
- Machine Learning
- Artificial Intelligence
- Deep Learning
- Data Visualization
- Pandas
- NumPy
- Power BI
- HTML, CSS
- JavaScript, React
- MongoDB
- Computer Vision
- NLP
- TensorFlow
- PyTorch
- Keras
- OpenCV
- Langchain
- LLM

ACHIEVEMENTS

AR in Fashion Industry
4th IEEE International
Conference on Advances in
Computing, Communication
Control and Networking 2022

- **Presenter:** Pratham Chopra
- **Author(s):** Pratham Chopra, Dwaj Ranka, Ranvir Mehta

Terapanth Yuvak Parishad (NGO), Bengaluru — *Web Developer*

08/2022-03/2023

- Conceived and launched the Terapanth Yuvak Parishad Legacy Portal, a user-centered website honoring past leaders.
- Crafted an interactive front end with HTML, CSS, JavaScript, and React for an engaging user experience.
- Developed a robust back end with Python and MongoDB for efficient data retrieval, ensuring easy access to leader profiles and accomplishments.

PROJECTS

Speech Emotion Recognition — *Personal Project*

- Integrated noise addition and pitch stretching techniques into the data preprocessing pipeline.
- Engineered a CNN model achieving 85.34% training accuracy and 71.8% testing accuracy.
- Utilized datasets including TESS, RAVDESS, CREMA, and SAVEE for comprehensive model training.

Docs Chat — *Personal Project*

- Developed a full-stack AI application integrating document analysis and database querying.
- Implemented NLP capabilities to generate SQL queries, improving database query efficiency by 40%.
- Created a user-friendly interface, increasing data accessibility by 30%.

Researcher Chat Agent — *Personal Project*

- Built full-stack AI app with Streamlit & Python, searching & analyzing up to 50 relevant arXiv papers per query with 99% accuracy.
- Implemented NLP (Hugging Face, Ollama) reducing research reading time by 300+ mins (5+ hrs) and boosting efficiency by 75%.
- Designed 95%-rated intuitive UI for seamless AI research interaction.

LANGUAGES

- English
- Hindi
- Kannada

CERTIFICATIONS

- Hands-on Python, Hunar Pro | 05/2022
- Introduction to Augmented Reality and ARCore, Coursera | 06/2023-07/2023
- Microsoft AI-900, Microsoft | 01/2024
- Data Visualization and Storytelling, Futureense Technologies | 02/2024
- Data Analysis with Pandas and Python, Udemy | 11/2022-01/2023
- Generative AI with LLM's, Deep Learning AI (Coursera) | 08/2023-09/2023
- Machine Learning with Python, Cognitive Class (IBM) | 09/2023