

# Anubhav Singh Pathania

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## Education

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Thapar Institute of Engineering & Technology, Master of Computer Applications	Aug 2024 – Present
Guru Gobind Singh Indraprastha University, Bachelors of Computer Applications	Sept 2020 – Aug 2023

## Experience

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<b>Data Science Intern</b> , GeeksforGeeks – Remote, India	Jun 2025 – Present
<ul style="list-style-type: none"><li>Engineered Python-based data pipelines using Pandas/NumPy for efficient cleaning, transformation, and integration of structured and unstructured datasets.</li><li>Enhanced ML models (Logistic Regression, Random Forest, XGBoost) through feature engineering, boosting accuracy by 12% and cutting inference time by 20%.</li><li>Created data visualizations using Matplotlib/Seaborn to present insights clearly.</li><li>Collaborated in deploying LangChain-powered LLM applications with real-time retrieval for enhanced user experience.</li></ul>	
<b>Front-End Developer Intern</b> , IRCTC – New Delhi, India	Jul 2022 – Sept 2022
<ul style="list-style-type: none"><li>Developed and maintained responsive web interfaces using HTML, CSS, and Angular, reducing page load time by 25% and increasing user engagement metrics by 15%.</li><li>Integrated and managed database operations to support dynamic content and enhance data accessibility.</li><li>Collaborated with the tourism department to understand requirements and deliver user-focused front-end solutions.</li></ul>	

## Projects

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<b>ChatMate</b>   Python, MySQL, SQLAlchemy, Langchain, Pinecone	github.com/ChatMate
<ul style="list-style-type: none"><li>Developed a chatbot application using Python, MySQL, and SQLAlchemy for smooth, real-time conversations.</li><li>Integrated authentication, document upload, and retrieval features, reducing query time by 35%.</li><li>Optimized backend queries to cut execution time by 40% and handle 2x more requests without latency.</li></ul>	
<b>Sentiment Analysis on HMPV</b>   Numpy, Pandas, Matplotlib, Seaborn, NLTK, Keras	github.com/HMPV
<ul style="list-style-type: none"><li>Built an end-to-end sentiment and emotion analysis pipeline for HMPV-related data using Python, NLP, and hybrid ML/DL approaches.</li><li>Deployed and integrated an ensemble LightGBM model combining multiple algorithms to boost classification accuracy.</li><li>Implemented Streamlit dashboards for sentiment and model insights.</li></ul>	
<b>Sign2Text</b>   Python, Numpy, Tensorflow, OpenCV, Streamlit, ML, NLP	github.com/Sign2Text
<ul style="list-style-type: none"><li>Built a real-time bi-directional system enabling speech to Indian Sign Language (ISL) translation for accessibility.</li><li>Achieved 90+ accuracy using CNNs for gesture recognition and NLP for speech-to-text processing.</li><li>Implemented a GUI supporting real-time camera/audio input and offline mode using Tkinter/Streamlit.</li></ul>	

## Skills

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**Programming Languages:** C++, Python  
**CS Fundamentals :** Data Structures & Algorithms, OOPS, Operating Systems, Computer Networks, DBMS, SE  
**Core Competencies:** Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence.  
**Libraries:** Numpy, Pandas, Matplotlib, Tensorflow, Scikit-learn, Pytorch, Streamlit.  
**Developer Tools:** VS Code, GitHub, Google Colab, Jupyter.  
**Soft Skills:** Communication & Presentation, Critical Thinking, Leadership, Decision Making, Problem Solving.