

# AMAN VISHWAKARMA

+91-7021599617 amansharma1729ds@gmail.com amanvishds Aman-Vishwakarma1729 Portfolio

## EDUCATION

Vellore Institute of Technology  
MSc. Data Science - 9.00 - CGPA

07 2023 – 07 2025

Chennai, India

University of Mumbai  
BSc. Mathematics - 9.24 - CGPA

08 2019 – 05 2022

Mumbai, India

## SKILLS

- Mathematics
- Advance Statistics
- Python
- SQL & NoSQL
- GraphDB
- R
- Web scrapping
- Power BI
- Pandas
- Numpy
- Feature Engineering
- Exploratory Data Analysis (EDA)
- Machine Learning
- Scikit-Learn
- Time Series
- Deep Learning
- Tensorflow
- Pytorch
- Natural Language Processing
- Computer Vision
- Artificial Intelligence
- Generative AI
- Langchain
- MLOps
- Flask
- MLflow
- Data Vesion Control (DVC)
- Airflow
- DagsHub
- GitHub
- Docker
- Cloud Services
- Large Language Models (LLMs)
- HuggingFace
- Continuous Learner
- Good Communication Skills

## INTERNSHIPS

Grahun | Data Science Intern

08 2024 – current

- Worked on developing end-to-end recommendation systems leveraging NLP techniques, Generative AI, and orchestrating LLMs (LLama 3.1, 3.2), BERT for personalized user experiences.
- Built and deployed knowledge graphs with Neo4j to structure complex relationships, utilizing Hugging Face for embedding and other LLM implementations.
- Enhanced recommendation pipeline through advanced NLP and multi-agent GenAI solutions, incorporating Vector Databases and Knowledge Graphs for scalable insights.

SpectoV Pvt. Ltd. | AI-ML Engineer Intern

04 2024 – 08 2024

- Spearheaded AI-driven gesture recognition models with TensorFlow and PyTorch, achieving 98.93% accuracy in real-time conversion of gestures to audio, enhancing assistive technology accessibility.
- Optimized and quantized models to TFLite, enabling seamless deployment on edge devices like AR glasses with Coral-TPU for efficient, low-latency processing.
- Collaborated with cross-functional teams to advance AR/VR solutions, creating bidirectional AI systems for audio-to-gesture translation, driving inclusivity in immersive environments.

## PROJECTS

Body Mass Index Prediction from Face Images | Python, EDA, Feature Engineering, Feature Selection, ML

- Designed and deployed an automated BMI prediction system using deep computer vision, achieving a 97.87% accuracy with a Random Forest model and ensembling techniques.
- Executed an end-to-end workflow from web scraping to feature engineering, implementing modular code with custom exception handling and logging for robust performance.
- Developed and deployed a Flask API with a custom UI on AWS App Runner, utilizing Docker and GitHub Actions for CI/CD to ensure seamless and efficient pipeline automation.

SmartCry: AI-Based Infant Discomfort Classification | Librosa, TensorFlow, Visualization, ML, DL

- Developed and deployed an AI-based infant discomfort classification system using audio data, leveraging Librosa for advanced feature extraction and TensorFlow for model training.
- Implemented multiple ML models, including SVM, Naive Bayes, Random Forest, KNN, and LSTM, with LSTM achieving a 94% accuracy for precise discomfort classification.
- Conducted comprehensive data preprocessing, model evaluation, and hyperparameter tuning, demonstrating strong skills in audio data handling, machine learning, and deep learning.

## EXTRACURRICULAR

NSS (National Service Scheme) | Volunteer

- Participated in community service activities such as tree planting, road cleaning, and blood drives, while teaching underprivileged children and demonstrating leadership and social responsibility.

## CERTIFICATIONS

- Data Science Master - PW Skills
- Complete Generative AI with Langchain - Udemy
- Secured first place in DATA-THON during Techno-VIT
- Azure AI Document Intelligence - Microsoft
- PowerBI certification - Udemy
- Google Analytics Certification
- Hackathon - Open Weaver