Venkatesh Manupati

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Education

12/2021 – 05/2025	**B.Tech in Electronics and Communication Engineering** *NIT Kurukshetra, CGPA:7.2112*
2019 – 2021 Balanagar	**Intermediate (Class XII)** *TTWR Junior College (Boys).*

Skills

Programming & Database Management — SQL, Python, JavaScript , HTML, CSS, Git, MySQL, .NET

Software Development — Object-Oriented Programming (OOP), Problem-Solving, Machine Learning

Tools & Platforms — Visual Studio, GitHub, Jupyter Notebook, Tableau

Soft Skills — Analytical Thinking, Communication, Team Collaboration, Adaptability

Projects

Million Songs Dataset Analysis using Python | Recommendation Engine
- Developed a hybrid music recommendation engine using the Million Songs Dataset, combining **popularity-based** and **item-based collaborative filtering** techniques.
- Engineered features by merging user interaction and metadata, and constructed unique song identifiers (title + artist).
- Implemented an **item-based recommender** using a co-occurrence matrix to identify and rank similar songs based on shared user behavior.
- Encapsulated logic in reusable Python classes, demonstrating proficiency in **object-oriented programming**, **matrix operations**, and scalable data pipelines

GNSS Jamming Detection using Deep Learning
- Designed and implemented a deep learning model to detect jamming in GNSS signals.
- Collected and preprocessed signal data for both jammed and normal conditions.
- Extracted key features using spectrogram and time-frequency analysis techniques.
- Built and trained a Convolutional Neural Network (CNN) for binary classification.
- Achieved ~95% classification accuracy with robust model tuning and validation.
- Tools used: Python, TensorFlow/Keras, NumPy, Matplotlib, Scikit-learn

Certificates & Acheivements

- Databases for Developers: Foundations-Oracle
- National Cadet Corps (NCC) 'A' Certification
- Career Essentials in Data Analysis by Microsoft and LinkedIn
- Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Venkatesh Manupati