NAGA CHARAN TANGUTURU

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### **EDUCATION**

**Mohan Babu University, *Tirupati***  **Sep 2022 - July 2026**

## Bachelor Of Technology and Engineering **CGPA : 9.34**

**Vivekananda Junior College, *Jammalamadugu*****June 2020 - July 2022**

## Board Of Intermediate Education **Percentage : 92.83%**

### **SKILLS SUMMARY**

* **Programming Languages:** Java, Python, R, SQL, HTML, CSS, JavaScript
* **Libraries & Frameworks:** Pandas, NumPy, Scikit-Learn, TensorFlow, Keras
* **Data Visualization & BI Tools:** Matplotlib, Seaborn, Power Bi
* **Tools & Platforms:** Jupyter Notebook, VS Code, MySQL
* **Soft Skills:** Analytical Thinking, Problem-Solving, Communication, Process Optimization

### **EXPERIENCE**

#### AI-ML Intern (Remote) September 2024- November 2024

#### Rooman Technologies (Collaboration with IBM and Wadhwani)

* + Gained 300+ hours of hands-on training in **Python, SQL, and data analytics**.
  + Developed a **Real-Time Social Media Analytics Pipeline** using Kafka & Flink, **analyzing 1,500+ posts daily** for sentiment trends.
  + **Automated data processing workflows** with Python & SQL, improving **efficiency by 40%**.
  + Developed dynamic data visualizations using Matplotlib & Seaborn, enhancing insights for data-driven decision-making.
  + Completed 30+ hours of soft skills training, enhancing communication & stakeholder collaboration.

**Machine Learning Intern** **September 2023 - October 2023**

Skill Vertex Technologies Private Limited Bengaluru, India

* + Completed 100+ hours of hands-on training in **Python, NumPy, Matplotlib, and Scikit-learn**, focusing on data preprocessing and ML model development.
  + Implemented 4+ machine learning models, including Linear Regression, Multiple Linear Regression, Logistic Regression, and KNN, analyzing 5,000+ data points.
  + Built a **Real Estate House Price Prediction model** using Multiple Linear Regression, achieving an **80% accuracy score** on test data

### **PROJECTS**

#### Online Shopper’s Purchase Intention Model January 2025- February 2025

* + Built a **machine learning pipeline** to predict **customer purchase intent**, applying **feature engineering, data preprocessing, and SMOTE** for handling class imbalance.
  + Evaluated **6 classification models** (Random Forest, SVM, Decision Tree, KNN), optimizing performance using **cross-validation and feature selection**.
  + Achieved **88% accuracy, 0.83 ROC-AUC, and 0.68 F1-score**, correctly predicting **90% of non-purchasers** and **77% of purchasers**, using the best performing model, providing insights for improving **customer conversion strategies**.

#### Real Time Social Media Analytics Pipeline December 2024- February 2025

* + Built a **real-time data pipeline** using **Apache Kafka and PyFlink**, processing **100+ Reddit posts daily** for **sentiment analysis and trend detection**.
  + Applied **NLP techniques** (tokenization, stopword removal, lemmatization) with **TextBlob for sentiment scoring** and **Word Frequency Analysis** for trend identification, achieving an estimated **85-90% accuracy**.
  + Indexed 1000+ processed data points in **Elasticsearch**, enabling **real-time visualization via Kibana dashboards** for sentiment trends.

### **CERTIFICATES**

#### [Elements of AI(Agents)](https://certificates.mooc.fi/validate/tcbuoxs80go) December 2024

* + Gained foundational knowledge in artificial intelligence, covering key concepts, real-world applications, and ethical considerations

#### Python for Data Science (Infosys SpringBoard) June 2024

* + Developed proficiency in Python for data manipulation, analysis, and visualization using Pandas, NumPy, and Matplotlib.

#### Soft Skills Certifications (IBM Skills Build) October 2022

* + Enhanced communication, teamwork, problem-solving, and leadership skills through structured training modules.