

NAGA CHARAN TANGUTURU

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EDUCATION

Mohan Babu University, Tirupati
Bachelor Of Technology and Engineering
Vivekananda Junior College, Jammalamadugu
Board Of Intermediate Education

Sep 2022 - July 2026
CGPA : 9.34
June 2020 - July 2022
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 Wadhvani)
- o Gained 300+ hours of hands-on training in **Python, SQL, and data analytics**.
 - o Developed a **Real-Time Social Media Analytics Pipeline** using Kafka & Flink, **analyzing 1,500+ posts daily** for sentiment trends.
 - o **Automated data processing workflows** with Python & SQL, improving **efficiency by 40%**.
 - o Developed dynamic data visualizations using Matplotlib & Seaborn, enhancing insights for data-driven decision-making.
 - o 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
- o Completed 100+ hours of hands-on training in **Python, NumPy, Matplotlib, and Scikit-learn**, focusing on data preprocessing and ML model development.
 - o Implemented 4+ machine learning models, including Linear Regression, Multiple Linear Regression, Logistic Regression, and KNN, analyzing 5,000+ data points.
 - o 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
- o Built a **machine learning pipeline** to predict **customer purchase intent**, applying **feature engineering, data preprocessing, and SMOTE** for handling class imbalance.
 - o Evaluated **6 classification models** (Random Forest, SVM, Decision Tree, KNN), optimizing performance using **cross-validation and feature selection**.
 - o 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
- o Built a **real-time data pipeline** using **Apache Kafka and PyFlink**, processing **100+ Reddit posts daily** for **sentiment analysis and trend detection**.
 - o 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**.
 - o Indexed 1000+ processed data points in **Elasticsearch**, enabling **real-time visualization via Kibana dashboards** for sentiment trends.

CERTIFICATES

- Elements of AI(Agents)** December 2024
- o Gained foundational knowledge in artificial intelligence, covering key concepts, real-world applications, and ethical considerations
- Python for Data Science (Infosys SpringBoard)** June 2024
- o Developed proficiency in Python for data manipulation, analysis, and visualization using Pandas, NumPy, and Matplotlib.
- Soft Skills Certifications (IBM Skills Build)** October 2022
- o Enhanced communication, teamwork, problem-solving, and leadership skills through structured training modules.