

Hema Navya Yarra

✉ hemanavya3@gmail.com 📞 +91-7207078163 📍 Addanki, India
🌐 LinkedIn 🐙 Github

About

Recent B.Tech graduate in Data Science with strong skills in Python, SQL, and data visualization. Experienced in building data models, analyzing structured datasets, and developing dashboards that drive decision-making. Skilled in Tableau, Pandas, and Excel for insightful reporting. Seeking a Data Analyst role to apply technical and analytical expertise in solving real-world problems, maintaining data quality, and enabling strategic insights.

Technical Skills

Programming	Python, Java, SQL
Libraries/Frameworks	NumPy, Pandas, Matplotlib, Seaborn
Data Visualization	Tableau, Excel
Databases	MySQL, SQL (Data Querying)
Core Subjects	Data Structures & Algorithms, Operating Systems, Computer Networks
Cloud Platforms	AWS (Lambda, EC2, S3, IAM)
Tools	Git, GitHub, Windows, Linux
Soft Skills	Communication, Adaptability, Problem-Solving, Analytical Thinking, Decision-Making

Projects

Fingerprint Authentication Voting System Using Arduino

Technologies: Arduino Uno, R307 Fingerprint Sensor, Embedded C, LCD, I2C, Buzzer

- Designed a secure EVM prototype with fingerprint-based authentication to ensure one-person-one-vote.
- Integrated LCD interface and buzzer feedback for real-time interaction and fraud prevention.
- Prevented duplicate voting using ID tracking, achieving transparency and reliability.

GitHub: Repository

Enhanced Hybrid CNN-GAN for Oral Cancer Detection

Technologies: Python, TensorFlow, Keras, OpenCV

- Built an ensemble model using EfficientNetB3, ResNet152, and RegNetY032 for oral cancer detection.
- Improved dataset balance with GAN-generated synthetic images and GLCM-based texture analysis.
- Achieved 94.55% accuracy and deployed via a Streamlit web app for real-time predictions.
- Integrated YouTube API to display educational content and improve patient awareness.

GitHub: Repository

Sales Performance Dashboard in Tableau

Tools: Tableau

- Designed an interactive dashboard using Superstore dataset to track sales, profit, and category performance.
- Implemented KPIs, dynamic filters, and charts for actionable business insights.
- Published on Tableau Public for real-time access.

Link: Dashboard

Internships

Altair – Data Science Intern

April 2025 – June 2025

The Altair Data Science Master Virtual Internship, conducted via AICTE EDUSKILLS and supported by Altair, equipped me with practical data science expertise over a 10-week period. I mastered Python (Pandas, NumPy, Scikit-learn), SQL, and visualization tools like Matplotlib and Seaborn, applying them to real-world datasets for cleaning, analysis, and machine learning model development, enhanced my technical and problem-solving skills for a data science career.

Alteryx – Data Analytics Process Automation Intern

Sep 2023 – Nov 2023

Alteryx Data Analytics Process Automation Virtual Internship (AICTE Eduskills) Completed a 10-week structured program focused on data analytics and automation using Alteryx Designer. Prepared for the Alteryx Foundations Micro-Credential, expanded tool knowledge through hands-on exercises, and applied skills in a capstone project aligned with the Alteryx Designer Core Certification. Gained practical experience in data preparation, transformation, cleansing, and process automation, strengthening my foundation in applied analytics.

Certifications

- AWS Cloud Foundation – AWS Academy, AICTE
- Java Development – Mouktik Consultancy Services
- Problem Solving Through Programming in C – NPTEL
- Joy of Computing Using Python – NPTEL

Achievements & Extracurriculars

- Winner – Technical Paper Presentation, Cobuss Tech Fest.
- Member – Literary and Cultural Committee, contributed to organizing events and improving communication skills.

Education

B.Tech – CSE (Data Science)	R.V.R. & J.C. College of Engineering CGPA: 9.3	<i>2021 – 2025</i>
Intermediate (MPC)	Sri Chaitanya Junior College GPA: 9.6	<i>2019 – 2021</i>
SSC	Holy Faith English Medium School CGPA: 10.0	<i>2018 – 2019</i>