

Chekuri Yaswanth Kumar

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Education

Vellore Institute of Technology (VIT), Tamil Nadu, India B.Tech in Computer Science and Engineering (Business Systems), GPA: 8.24/10.0	2022-2026
Narayana Junior College, Vijayawada, Andhra Pradesh, India Higher Secondary School, 93%	2020-2022
Narayana Group of Educational Institutions, Vijayawada Secondary School, 600/600	2020

Publications

Manikandan N, Shayaree Lodh, Chekuri Yaswanth Kumar, Sisnu S. K, Thigulla Sai Varun Reddy, Ruby D. "Beyond the Chart: AI-Powered Storytelling in Business Intelligence Dashboards." Proceedings of the 4th IEEE International Conference on Sensors and Related Networks, July 2025. Published by IEEE.
[DOI: 10.1109/SENNET.2025.11135936](https://doi.org/10.1109/SENNET.2025.11135936)

Projects

AGILEBOARD – Task Management System

HTML, CSS, JavaScript, PHP, MySQL, AWS (Elastic Beanstalk, Cognito, RDS, S3)

- Built a cloud-hosted task management platform with secure user authentication and role-based access via AWS Cognito.
- Developed REST APIs using PHP and stored user/task data in AWS RDS (MySQL).
- Integrated AWS S3 for static assets and user uploads, improving reliability and reducing backend load.
- Deployed frontend and backend on AWS Elastic Beanstalk, enabling automated provisioning, updates, and scalable hosting.

BEYOND THE CHART: AI-Powered Storytelling in Business Intelligence Dashboards

Python, Google Gemini API (LLM), TensorFlow/Keras (LSTM), Streamlit, Pandas, OCR, NLP

- Built an AI-powered BI dashboard using LSTM models for 30-day forecasting with dynamic visualization of stock data.
- Designed three modules: **Data-to-Graph** (CSV to visuals), **Future Prediction** (normalization + LSTM insights), and **Graph-to-Text** (OCR + VQA-based summaries).
- Designed prompt workflows to produce concise, business-focused summaries tailored for non-technical users.

FARM INTEL

Python, Streamlit, Pandas, Random Forest, OpenWeatherMap API, SQLite

- Built an agri-advisory platform recommending the top 3 crops using Random Forest based on soil NPK values, location via OpenWeatherMap API, and real-time weather.
- Implemented modules for soil NPK values and land area input, lab locator via Maps API, crop prediction and crop budgeting.

Skills

- **Languages:** C++, Python, MySQL
- **Cloud (AWS):** EC2, S3, RDS (MySQL), Elastic Beanstalk, Cognito, IAM
- **Web:** HTML, CSS, JS, PHP
- **Tools:** Git, VS Code
- **Soft Skills:** Team Collaboration, Communication Skills, Problem Solving

Certifications

Microsoft Azure AI-900 View	Aug 2024
MySQL Implementation Certified Associate, Oracle View	July 2025

Achievements

- Solved 200+ coding problems across LeetCode and GeeksforGeeks, with strong focus on algorithms.
- Qualified Round 2 in TCS CodeVita 2025 with a global rank of 493.
- Selected for Round 2 in Agri-Hack (VIT Hackathon) for developing the FARM INTEL application.