

Navari Yashwanth Reddy

Data Science Undergraduate | Machine Learning | Data Analytics | Artificial Intelligence

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Professional Summary

Data Science undergraduate with hands-on experience in machine learning, deep learning, generative AI, computer vision, data analytics, and data engineering. Experienced in Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, OpenCV, PostgreSQL, Streamlit, and Power BI, with practical experience in data preprocessing, exploratory data analysis, feature engineering, predictive modeling, model evaluation, ETL, SQL analytics, and data visualization. Currently working as a Data Science with Gen AI Intern, developing AI-powered applications, machine learning workflows, LLM-based solutions, and data processing pipelines. Government of India Design Patent holder with 20+ software projects across Data Science, AI, healthcare, computer vision, analytics, and intelligent automation.

Education

Woxsen University

2023 – 2027

Bachelor of Technology (B.Tech.) in Data Science

Relevant Coursework: Machine Learning, Deep Learning, Data Structures and Algorithms, Database Management Systems, Data Analytics, Artificial Intelligence, Cloud Computing, Computer Networks, Operating Systems

Technical Skills

Programming: Python, SQL, Java, JavaScript, TypeScript

Data Science & Analytics: Pandas, NumPy, Scikit-learn, Exploratory Data Analysis (EDA), Data Cleaning, Data Preprocessing, Feature Engineering, Statistical Analysis, Predictive Analytics, Data Visualization, Power BI, Plotly

Machine Learning: Supervised Learning, Unsupervised Learning, Classification, Regression, Ensemble Learning, Random Forest, Clustering, Predictive Modeling, Model Development, Model Evaluation

Deep Learning & Generative AI: TensorFlow, PyTorch, Neural Networks, Convolutional Neural Networks, Deep Learning, Generative AI, Large Language Models (LLMs), Prompt Engineering, Retrieval-Augmented Generation (RAG)

Computer Vision: OpenCV, Image Processing, Facial Recognition, Object Detection, YOLO, Real-Time Video Analytics

Databases & Data Engineering: PostgreSQL, MySQL, SQLite, Relational Database Design, ETL Pipelines, Data Validation, SQL Analytics, API Data Ingestion

Tools: Streamlit, Flask, REST APIs, Git, GitHub, Docker, Linux, VS Code

Professional Experience

Data Science with Gen AI Intern – Innovexis

Jul 2026 – Present

Remote

- Develop AI-powered applications and data science solutions using Python, Machine Learning, Deep Learning, Generative AI, and Large Language Models.
- Build data processing and machine learning workflows covering preprocessing, feature engineering, model development, evaluation, and performance analysis.
- Develop LLM-based applications and intelligent workflows using Generative AI techniques and prompt engineering.
- Apply machine learning and deep learning approaches to predictive modeling and intelligent automation problems.
- Collaborate with engineering teams to develop, evaluate, and integrate AI-driven solutions.

AI Web Development Intern – InAmigos Foundation

Jun 2026 – Jul 2026

Remote

- Engineered AI-enabled web applications using React.js, JavaScript, Python, REST APIs, and responsive web technologies.
- Integrated artificial intelligence functionality into production-oriented software applications.
- Built REST API workflows using Node.js and PostgreSQL for structured application data and backend operations.
- Developed volunteer management and donation workflows while contributing to production application features.
- Collaborated using Git, GitHub, Docker, and Agile practices.

Data Science Projects

Cricbuzz LiveStats – Real-Time Cricket Analytics Platform

Python, PostgreSQL, SQL, Streamlit, Plotly

- Built a real-time cricket analytics platform that ingests API data, transforms nested JSON responses, and stores normalized

relational data for analytical workloads.

- Designed a Third Normal Form (3NF) relational database schema and implemented SQL analytics across matches, players, innings, batting, bowling, fielding, and partnerships.
- Implemented 25 analytical SQL queries covering rolling averages, consistency analysis, team comparisons, bowling performance, partnership analysis, and target-chasing success rates.
- Developed a Streamlit dashboard with Plotly visualizations, API exploration, data validation, database inspection, SQL analytics, and performance monitoring.

StrokeGuard.ai – ML-Based Stroke Risk Prediction

Python, Scikit-learn, Pandas, Random Forest

- Developed a supervised machine learning classification system that analyzes patient health features to estimate stroke risk.
- Applied data preprocessing, feature preparation, model training, threshold calibration, and predictive classification.
- Used ensemble learning and Random Forest techniques for healthcare risk classification.
- Achieved 98% reported prediction accuracy during project evaluation.

AgriSathi – Smart Farmer Assistant

Python, Pandas, Machine Learning, Flask

- Developed a machine learning-driven agricultural decision support platform using soil, climate, and agricultural parameters.
- Built recommendation workflows for crop and fertilizer selection using machine learning models and structured agricultural data.
- Integrated weather-informed strategies and predictive intelligence to support data-driven agricultural decision making.
- Exposed machine learning functionality through a Flask application.

Netflix Movies & TV Shows Clustering

Python, Jupyter Notebook, Unsupervised Learning

- Developed an unsupervised machine learning solution to cluster Netflix movies and television shows using textual features and metadata.
- Applied data preprocessing, feature representation, similarity analysis, and clustering techniques to identify meaningful content groups.

Machine Learning & Computer Vision Projects

NeuroVision – Custom Object Detection Platform

Python, YOLO, PyTorch, OpenCV

- Designed and trained a custom object detection model using deep learning, including dataset creation, annotation, preprocessing, and data augmentation.
- Fine-tuned a YOLO-based architecture and evaluated the model using precision, recall, and mean Average Precision (mAP).
- Deployed the trained model for real-time inference using OpenCV-based image and video processing.

DeepFER Live – Real-Time Facial Emotion Recognition

Python, TensorFlow, OpenCV, CNN, FER-2013

- Developed a real-time facial emotion recognition system using a custom Convolutional Neural Network trained on FER-2013.
- Built an image-processing and inference pipeline using Python, TensorFlow, and OpenCV for live webcam analysis.
- Implemented multi-class classification of seven human emotions from real-time facial input.

Real-Time Machine Learning Object Detection System

Python, Deep Learning, Computer Vision

- Developed a real-time object detection system that identifies and localizes objects from visual input using deep learning.
- Applied computer vision preprocessing and real-time inference techniques for responsive object detection.

VisionSync – AI Attendance Management System

Python, Flask, OpenCV, SQLite

- Developed an AI-assisted attendance platform combining facial recognition, QR authentication, and GPS geofencing.
- Implemented computer-vision identity verification using OpenCV and integrated authentication workflows through Flask.
- Designed database-backed attendance workflows with session validation, device fingerprinting, and attendance analytics.

Smart Campus Network with Automatic Access Control

Python, PostgreSQL, React

- Developed an intelligent campus network monitoring platform for analyzing device activity and automating access control.
- Processed authentication events and device metadata for real-time monitoring, analysis, and visualization.
- Built PostgreSQL-backed services for structured storage and retrieval of network monitoring data.

Additional Project

OrganLife – Organ & Blood Donation Platform

PHP, MySQL, JavaScript

- Developed a healthcare platform connecting donors, recipients, and hospitals through database-driven workflows.
- Implemented donor and recipient management using MySQL and deployed the application for public demonstration.

Design Patent

- Received a Government of India Design Patent for an innovative IoT connectivity device designed to improve communication reliability between smart devices.
- Designed a scalable communication framework for efficient device connectivity and data transmission.
- Demonstrated innovation by integrating hardware concepts with software-driven optimization for IoT ecosystems.

[Patent Announcement \(LinkedIn\)](#)

Certifications

- Java Programming: Solving Problems with Software – Duke University, Coursera
- Data Structures Using Python – Packt, Coursera
- Object-Oriented Design – University of Alberta, Coursera
- Quantum Computing for Everyone – Fractal Analytics, Coursera
- The Arduino Platform & C Programming – University of California, Irvine
- Frontend Developer (React) – HackerRank

Achievements

- Government of India Design Patent Holder, Design No. 470097-001.
- Developed 20+ software and AI projects spanning Data Science, Machine Learning, Deep Learning, Computer Vision, Healthcare, Networking, and intelligent automation.

Profiles

GitHub: github.com/YashwanthNavari

LinkedIn: linkedin.com/in/navari-yashwanth-reddy-4a7065357

Portfolio: navariyashwanthreddy.vercel.app

Repositories: github.com/YashwanthNavari?tab=repositories