

Dandu Yeshwanth

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EDUCATION

Institute of Aeronautical Engineering, Hyderabad, India
B.Tech in Computer Science and Engineering (Data Science)

Expected Graduation: May 2026
CGPA: 7.93

J N Govt. Polytechnic, Ramanthapur, Hyderabad
Diploma in Electrical and Electronics Engineering

August 2023
GPA: 8.41

Krishnaveni High School, Godavari Khani, Peddapalli
SSC

March 2020
GPA: 10.0

SKILLS

Software Engineering Skills

- **Programming:** Python, SQL, Java (Basic)
- **Web Technologies:** HTML, CSS, JavaScript (Basic)
- **APIs & Backend:** REST API Integration (Basic), Flask (for ML deployment)
- **DevOps & Cloud:** Docker, Kubernetes (Basic), AWS (Basic)
- **Development Tools:** Git, VS Code, Jupyter Notebook, Anaconda

Data Science & AI Skills

- **Machine Learning:** Regression, Classification, Clustering, Random Forest, Gradient Boosting, XGBoost
- **Deep Learning & AI:** Neural Networks, CNNs, Deep Learning, Foundation Models, Large Language Models (LLMs)
- **AI Tooling & Libraries:** TensorFlow, PyTorch, Scikit-learn, LangChain, LlamaIndex, Streamlit, OpenCV (Basic)
- **Data Engineering:** ETL Pipelines (SQL Server), Data Cleaning, Feature Engineering, Unstructured Data Processing
- **GenAI:** RAG Systems, Prompt Engineering, GenAI Security Awareness

Data Analyst Skills

- **Data Analysis:** Exploratory Data Analysis (EDA), Business Insights, Data Storytelling
- **Visualization:** Power BI, Tableau (Basic), Matplotlib, Seaborn, Plotly
- **Data Handling:** Pandas, NumPy, Excel

INTERNSHIPS

Makri Solutions (OPC) Private Limited, Hyderabad, Telangana
Data Analysis Intern

May – June 2024

- Analyzed healthcare data of 21M+ individuals from India's EAG states.
- Focused on IMR, MMR, and TFR metrics using Python and Power BI.
- Built dashboards, performed segmentation, and collaborated on data accuracy improvements.

PROJECTS

• **DocuQuery – Retrieval-Augmented Document Intelligence System**

Feb 2026

- Designed hybrid retrieval architecture combining dense vector search (FAISS) and sparse ranking (BM25) to process the pages of unstructured HR and financial documents.

- Improved answer relevance by 35% through structured document chunking and retrieval evaluation benchmarks.
 - Automated extraction of revenue, cost, expense, and profitability insights, reducing manual review effort by approximately 50% via interactive Gradio interface.
- **Customer Churn Prediction (SQL & Power BI)** Oct 2025
 - Built an ETL pipeline in SQL Server for telecom churn data and created analytical views for model integration.
 - Designed an interactive Power BI dashboard to visualize churn by demographics, geography, and services.
 - Trained a Random Forest model (84% accuracy) to predict customer churn using Python and scikit-learn.
- **Brain Tumor Multi-Class Classification (Deep Learning)** Nov 2025
 - **Built a 4-class brain tumor MRI classification system** using EfficientNet-B2 with transfer learning and data augmentation, achieving **98% test accuracy** across Glioma, Meningioma, Pituitary, and No-Tumor classes.
 - **Improved model generalization** via two-stage fine-tuning on **7,000+ MRI scans**, enabling robust feature extraction on unseen medical imaging data.
 - **Deployed the model as an end-to-end Flask application** supporting MRI upload, confidence-based predictions, and automated **PDF medical report generation**.
- **MLOps Movie Recommendation System** Dec - Jan 2026
 - **Built an end-to-end MLOps pipeline** using Python and MongoDB to automate data ingestion, schema validation, feature transformation, and model training for a production-ready movie recommender system.
 - **Developed a content-based recommendation engine** using TF-IDF vectorization and cosine similarity (scikit-learn), achieving **81% genre precision** by leveraging enriched text features from genres, keywords, cast, and director metadata.
 - **Deployed and operationalized the model** through a Flask-based web application and REST APIs, enabling real-time recommendations, fuzzy movie search, and cloud-based model artifact management using AWS S3.
- **Vehicle Insurance Prediction (MLOps Pipeline)** Sep – Oct 2025
 - Built and deployed an ML pipeline using Python, Scikit-learn, Flask, Docker, and AWS S3.
 - Automated model retraining and deployment via CI/CD workflows and Git-based version control.
 - Applied Feature Engineering, Regression, and Clustering on large datasets for predictive modeling.
- **MedRush – Emergency Ambulance Services App** Feb – May 2025
 - Led a team to develop a Flutter-based mobile app integrating Google Maps API, Gemini AI, and Firebase for ambulance booking, GPS tracking, and SOS alerts.
 - Applied full-stack mobile development, API integration, and real-time communication to enhance emergency response efficiency.
- **Celebrity Face Recognition** Feb 2025
 - Developed image-based face recognition using Haar cascades and face encodings.
 - Displayed bounding boxes, confidence scores, and matched celebrity names.
- **House Price Prediction** Mar 2025
 - Built a regression model using Scikit-learn and trained 10+ algorithms.
 - Tuned top models (XGBoost, Random Forest, Gradient Boosting) via GridSearchCV.
 - Achieved R^2 score of 0.88; saved final model with Joblib.

CERTIFICATES

Oracle AI Vector Search Certified Professional	Oct 2025
GenAI Powered Data Analytics Job Simulation (Forage)	July 2025
LLM Engineering: Master AI, Large Language Models & Agents (Udemy)	Apr – May 2025

ACHIEVEMENTS

Tech Savishkaar 3.0 Hackathon	Jan 2025
– Successfully cleared the coding round.	
– Presented ' <i>Plant Pal</i> ', an app idea that guides users on plant growth based on location temperature and provides personalized plant care suggestions.	

CODING PROFILES

Apr–May 2025, July 2025
– Leetcode: yeshwanthdandu18 – Rank: 683,033 – 180+ Problems Solved
– GeeksforGeeks: yeshwanthdandu2003 – 20+ Problems Solved

E-PORTFOLIOS

- **Portfolio:** yeshwanth-portfolio-18.netlify.app – Features AI/ML projects
- **GitHub:** github.com/YeshwanthDandu180903 – Personal and academic code repositories