

# CHARISMA DEVI POLOTHU

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## Career Objective

To begin my career as an AI or Machine Learning Engineer by applying my practical knowledge of machine learning, data engineering, and Python-based analytics to develop reliable, scalable solutions, while continuously strengthening my technical expertise and contributing effectively to engineering-driven organizations.

## Education

### VSM College of Engineering

Bachelor of Technology in Computer Science (CGPA: 8.7)

Oct. 2022 – May 2026

Ramachandrapuram, Andhra Pradesh

## Relevant Coursework

- |                   |                           |                    |                     |
|-------------------|---------------------------|--------------------|---------------------|
| • Data Structures | • Operating Systems       | • Machine Learning | • Computer Networks |
| • Algorithms      | • Artificial Intelligence | • Cloud Computing  | • DBMS              |

## Experience

### TechOuts India Pvt.Ltd.

Data Engineering Intern

Aug. 2025 – Oct. 2025

Hyderabad, Telangana

- Worked on end-to-end ETL workflows involving data ingestion, cleansing, transformation, and validation to support the reliable enterprise-wide analytics across systems.
- Built scalable data pipelines using Azure Databricks, PySpark, and SQL to process large structured and semi-structured datasets, improving overall throughput and performance.
- Automated daily ETL jobs and dependency orchestration using Apache Airflow, enabling consistent scheduling, reducing manual intervention, and improving pipeline reliability.
- Implemented data validation rules and monitored pipeline metrics to ensure accuracy and consistency across workflows for over 10,000 records per execution cycle.

## Projects

### AI-Powered Interview Analyzer | Python, ML, Streamlit, PostgreSQL

January 2025

- Built an AI scoring system analyzing facial cues and voice signals using optimized deep models for accurate scoring.
- Developed a Streamlit dashboard integrated with PostgreSQL to store structured interview records and export results.
- Improved recognition accuracy through preprocessing, noise filtering, and feature tuning across model pipelines.
- Delivered a production-ready evaluation UI enabling real-time scoring, insights, and recruiter-friendly report exports.

### Health Risk Prediction Portal | Machine Learning, XGBoost, SHAP, Streamlit

November 2024

- Trained XGBoost models delivering 85%+ accuracy for diabetes, heart risk, and lifestyle-related health predictions.
- Implemented SHAP visualizations exposing feature influence transparently for every diagnostic model output.
- Built a Streamlit interface providing rapid health risk scoring with stable predictions and sub-1.5s response time.

### House Price Prediction System | Python, Pandas, EDA, Regression

August 2024

- Cleaned and analyzed the Ames housing dataset using EDA to extract high-impact pricing factors for regression.
- Built a regression model achieving low MSE and 90%+ predictive stability across randomized evaluation cycles.
- Delivered pricing dashboards with clear visual insights that enable stakeholders to interpret feature patterns clearly.

## Technical Skills

**Languages:** Python, SQL, HTML/CSS, JavaScript

**Developer Tools:** Jupyter Notebook, Git, GitHub, VS Code, Power BI, Google Cloud Platform

**Soft Skills:** Problem Solving, Teamwork, Adaptability, Communication

**Technologies/Frameworks:** ETL, Data Cleaning, Airflow, Azure, Databricks, PySpark, Delta Lake, XGBoost, SHAP, Pandas, NumPy, Matplotlib, Scikit-learn

## Leadership & Professional Presence

### AI Educator & LinkedIn Community Builder

2022 – Present

*Content Creator*

Online

- Established a strong presence as an AI Educator on LinkedIn by sharing practical, high-impact insights on artificial intelligence, data analytics, and emerging technologies.
- Built and sustained an engaged community of 7,000+ followers through consistent, value-driven content and daily professional visibility.
- Translate complex technical concepts into clear, actionable knowledge, helping learners understand real-world applications of AI and technology trends.
- Strengthened professional credibility and networking reach by maintaining consistent engagement and thought-oriented discussions within the tech community.