TARUN SAI KRISHNA MURTHY PADALA

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PROFESSIONAL SUMMARY

Data Science enthusiast with hands-on ML experience in building models, data pipelines, and MLOps implementation. Proficient in Python, SQL, and statistical analysis with proven ability to extract insights and deploy production solutions. Passionate about solving business problems through data-driven approaches.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL
Machine Learning: Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering), Collaborative Filtering, Model Training & Evaluation
MLOps & Tools: MLflow, Git/GitHub, Docker, Jupyter Notebook, Model Deployment, Experiment Tracking, Version Control
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Dashboard Development
Frameworks & Libraries: TensorFlow, OpenCV, Streamlit, scikit-learn
Core Competencies: Exploratory Data Analysis (EDA), Data Cleaning, Statistical Analysis, Predictive Modeling, A/B Testing, Feature Engineering

WORK EXPERIENCE

Data Science Intern — Jul 2025 – Nov 2025
AI Variant — *Hyderabad, Telangana, India*

- Built and deployed ML models including collaborative filtering recommendation system and multi-class resume classifier with MLOps practices for reproducibility
- Developed end-to-end data pipelines for data collection, cleaning, and preprocessing, reducing preparation time by 40% through automation
- Performed exploratory data analysis (EDA) identifying patterns, trends, and actionable insights from complex datasets using Python and SQL
- Implemented model versioning and experiment tracking using MLflow and Git ensuring reproducible results across development cycles
- Created interactive dashboards and visualizations communicating findings to stakeholders supporting data-driven decision making

TECHNICAL PROJECTS

Online Course Recommendation System | *Python, Collaborative Filtering, Streamlit, MLOps*

- Engineered personalized recommendation engine using collaborative filtering analyzing user behavior patterns for relevant suggestions
- Performed comprehensive EDA on user interaction data identifying key trends and patterns improving recommendation accuracy
- Implemented MLOps pipeline with Git version control and experiment tracking, deployed using Streamlit for real-time recommendations

Resume Classification Model | *Python, NLP, Machine Learning, Model Optimization*

- Developed multi-class text classification model achieving 90%+ accuracy through data cleaning, feature extraction, and algorithm optimization
- Evaluated multiple ML algorithms (Logistic Regression, SVM, Decision Trees, Naive Bayes) using cross-validation and performance metrics
- Built production-ready interface for HR professionals enabling instant resume categorization

HR Analytics Dashboard | *Tableau, SQL, Data Visualization, Business Intelligence*

- Designed interactive dashboard analyzing employee attrition, demographics, and satisfaction metrics supporting workforce planning
- Wrote optimized SQL queries extracting and transforming HR data from databases creating clean datasets for visualization
- Presented insights on key HR metrics including turnover trends, department-wise analysis, and satisfaction correlations

Aero Canvas – Gesture Recognition System | *TensorFlow, OpenCV, Deep Learning*

- Built real-time gesture-controlled text input system using deep learning models trained on hand gesture datasets
- Implemented computer vision pipeline using OpenCV for preprocessing and TensorFlow for low-latency model inference

EDUCATION

Bachelor of Technology in Computer Science and Engineering — Graduated: 2025
Malla Reddy University — *Hyderabad, India*

- Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Statistics, Machine Learning

CERTIFICATIONS & ACHIEVEMENTS

- **Data Science Certification** – ExcelR Solutions — **Deep Learning Specialization** – DeepLearning.AI (Coursera)
- **Introduction to Data Science** – Cisco Networking Academy — **Data Visualization in Power BI** – Coursera
- **Data Analytics Job Simulation** – Deloitte