Padmasahithi Kondeti

+91-6281456808 | kondetipadmasahithi@gmail.com | Padmasahithi-Linkedin | Padmasahithi-GitHub

Education

International Institute of Information Technology (IIIT) — Hyderabad, India
Master of Science in Data Science — *Jul. 2024 – Present*
- CGPA: 9.34/10

Sri Venkateswara University (SVU) — Tirupati, India
Bachelor of Technology in Chemical Engineering (Gold Medalist) — *Aug. 2017 – Jul 2021*
- CGPA: 9.04/10

Sri Chaitanya Junior College — Nellore, India
Higher Secondary Education (Class XII) — *Jun. 2015 – Mar. 2017*
- CGPA: 9.81/10

Sanghamitra Vidyalayam — Nellore, India
Secondary Education (Class X) — *Jun. 2014 – Mar. 2015*
- CGPA: 9.8/10

Projects

AI vs Human Text Classification & Analysis | *Python, scikit-learn, XGBoost, NLP, Seaborn* — Jun. 2025
- Developed a supervised machine learning pipeline to classify whether text was authored by a human or generated by AI, leveraging linguistic, stylistic, and readability features.
- Performed exploratory data analysis (EDA) with visualizations of label distribution, readability indices, correlations, and word frequency patterns.
- Applied NLP techniques including tokenization, sentiment analysis (`TextBlob`), POS tagging, and Named Entity Recognition (`spaCy`) for feature extraction.
- Trained and compared models (Logistic Regression, Random Forest, SVM, XGBoost, Neural Networks), evaluating with confusion matrices, cross-validation, and ROC-AUC.

Personalized Course Recommendation System | *Python, scikit-learn, K-Means, NMF* — Mar. 2025
- Designed and evaluated multiple recommender system approaches (content-based, clustering, collaborative filtering, and neural networks) on online course datasets.
- Preprocessed and analyzed user–course interactions to uncover enrollment patterns, course popularity, and genre distributions.
- Implemented content-based models using profile–item similarity and K-Means clustering for group recommendations.
- Built collaborative filtering models (item-based KNN, Non-negative Matrix Factorization), comparing performance with RMSE and qualitative insights.

No-Code ML Model Training App | *Python, Streamlit, scikit-learn, AutoML* — Dec. 2024
- Developed an interactive Streamlit web app enabling dataset upload and automated ML model training without coding knowledge.
- Integrated preprocessing workflows (handling missing values, encoding, scaling) with configurable model selection (Logistic Regression, Random Forest, XGBoost).
- Implemented real-time evaluation metrics and visualizations including accuracy, ROC curves, and confusion matrices.
- Delivered a deployable prototype that democratizes machine learning for non-technical users through no-code automation.

Technical Skills

Languages: Python, SQL, Java, C++, JavaScript, HTML/CSS
Frameworks: Streamlit, React.js, FastAPI, Node.js, Bootstrap
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, XGBoost, Plotly, TextBlob, spaCy, NLTK
Tools & Technologies: Git, GitHub, VS Code, Jupyter Notebook, Postman
Databases: MySQL, MongoDB, PostgreSQL
Other Skills: Exploratory Data Analysis (EDA), Natural Language Processing (NLP), Machine Learning Model Development, Recommendation Systems, Model Evaluation (Confusion Matrix, ROC-AUC, Cross-Validation), Data Visualization, API Integration