PULUKAM PAVAN KUMAR

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EDUCATION

FLORIDA ATLANTIC UNIVERSITY **AUGUST 2023 - MAY 2025**

Masters in Data science and analytics ***CGPA:*** *3.85*

RELAVENT COURSE WORK

Business analytics and big data, Natural Language Processing, Deep Learning ,Database Management systems, Social media and web analytics, Data Mining and Machine Learning, Cloud Security, Gen AI, Information Retrival , Artificial Intelligence.

SKILLS SUMMARY

Languages: Python
Databases: MySQL, Oracle SQL
Statistical Techniques: Hypothesis Testing, Regression Analysis, Statistical Inference
Machine learning: Supervised learning, Unsupervised learning, Deep Learning, NLP.
Libraries: pandas, Numpy, Tensor flow, Matplotlib,seaborn.
Framework / Tools : Google colab, Jupyter, Tableau, Power BI.
Soft skills: Critical thinking, Problem solving skills, Communication.

WORK EXPERIENCE

Capgemini - Technical Training (Analyst Position) **August 2022 - February 2023**

- Completed comprehensive hands-on training in Python programming, SQL database management, and Cloud Computing.
- Developed proficiency in data analysis, database management.

Internship - Excelr solutions (Data Scienece) **February 2023 - August 2023**

Deep learning and NLP

Project: Resume Classification Using Deep Learning.

- Developed an automated resume screening system using NLP and deep learning models (LSTM) to efficiently classify and rank candidate profiles.
- Applied data cleaning, tokenization, and vectorization to preprocess textual data.
- Improved model classification accuracy by 20% by implementing hyperparameter tuning and feature engineering techniques.
- Enhanced recruitment efficiency by reducing manual resume screening efforts.

Project - Stock market price prediction using machine learning

- Developed predictive models using XGBoost, Random Forest, and LSTM algorithms to analyze and forecast stock trends.
- Conducted feature engineering, hyper-parameter tuning, and data preprocessing.
- Achieved 85% accuracy in predicting future stock price movements, assisting investors in making informed decisions.

PROJECTS

Liver Cirrhosis Prediction Using Machine Learning

- Built a predictive model using XGBoost, Logistic Regression, and NLP.
- I harnessed the power of Machine Learning boosting algorithms, notably XGBoost, in conjunction with fundamental models like Logistic Regression and Multi-Layer Perceptron.
- Achieved an 87% accuracy rate, aiding early disease detection.

Facial Recognition Using Convolutional Neural Networks

- Designed a CNN-based facial recognition system with an accuracy of 92%.
- Utilized OpenCV, TensorFlow, and data augmentation techniques.

CapitaLeap: Stock Market Analysis & Investment Advisor

- Collaborated with a hackathon team to build an AI-driven stock recommendation model for investors.
- Improved investment decision accuracy using sentiment analysis and trend forecasting.
- Enhanced model prediction accuracy, improving users' investment decision-making capabilities.

Loan Approval Prediction Using Logistic Regression

- Developed a logistic regression model to predict loan approvals based on demographic and financial data.
- Applied data cleaning techniques and handled categorical data using label encoding for better model performance.
- Achieved an 88% accuracy score in predicting loan approvals by leveraging key biographical factors.
- Conducted extensive feature analysis to identify the most influential attributes in the prediction model.

CERTIFICATIONS

- Hackathon Participant (**Call for Code**, **IBM**, **IEEE**, **NextEra Energy**, **Synergist**)
- Machine Learning Specialization - **University of Michigan** (Coursera)
- CCNAv7: Introduction to Networks - **Cisco**
- IT Essentials & Introduction to IoT - **Cisco**
- Cybersecurity & Cloud Security Certifications (Palo Alto Networks):
  - Fundamentals of Cloud Security
  - Fundamentals of Network Security
  - Introduction to Cybersecurity
  - Security Operations Center (SOC) Fundamentals

ADDITIONAL INFORMATION

Languages: English (Fluent), Telugu (Native), Hindi (Conversational)
Availability: Open to internships and full-time roles in Data Science, Data Analytics, and AI
Work Authorization: Eligible to work in the U.S.