SowmyaChatharaju

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Education

JNTUH University College of Engineering, Jagtial	2020-24
Bachelor of Technology in Information Technology	7.7
Krishnaveni Junior College, Warangal – Intermediate	2018-20
MPC Stream	9.8
Krishnaveni Talent School, Warangal – SSC	2017-18
Telangana Board of Secondary Education	9.5

Projects

HealthCare Chatbot using Natural Language Processing.
Github Link: #HealthCareChatbot(NLP)

- Developed an intelligent healthcare chatbot using **NLP** to provide medical guidance based on user queries.
- Built the chatbot using Flask for real-time interaction and integrated TF-IDF and Cosine Similarity for accurate response generation.
- Processed health-related data from text files (symptom.txt, pincodes.txt) to suggest treatments and find nearby doctors.
- Utilized ChatterBot and SQLAlchemy for continuous learning and data management.
- Enhanced user experience by implementing features for symptom assessment and doctor search based on user inputs.

Bank Customer Churn Prediction.
Github Link: #BankCustorChurnPrediction

- Developed churn prediction models using Logistic Regression, SVM, KNN, and Perceptron, achieving 82% accuracy.
- Assessed model performance with metrics like accuracy, precision, recall, and F1 score, addressing class imbalance.
- Applied bootstrapping techniques to estimate model stability and confidence intervals for improved reliability.
- Optimized models through hyperparameter tuning and cross-validation to ensure consistent performance.
- Collaborated in refining models and applied strategies to enhance predictions for customer retention.

Experience (Internship)

Advanced Data Analysis Intern
Innomatics Research Labs

November-October2024

Online

- Gained hands-on experience in Python programming for efficient data manipulation and analysis.
- Developed data-driven strategies to tackle complex real-world challenges.
- Conducted exploratory data analysis (EDA) to extract meaningful insights from raw data.
- Created actionable reports to effectively communicate findings to stakeholders.

Tech Skills

- Languages: Python, C, Java, data analytics, Python Libraries — Numpy, Pandas, Matplotlib.
- Databases: SQL, Technologies: Machine learning
- Relevant Coursework: Data Structures, Object Oriented Programming, Software Engineering, software development life cycle.
- Soft Skills: Logical Thinking, Communication Skills, Continuous Learner.

Certifications

- **Machine Learning Certification from PrepInsta**: Attained specialized certification demonstrating expertise in machine learning algorithms and model development.
- **SQL Certification from PrepInsta**: Received certification by showcasing proficiency in SQL database management, querying.
- **Python Certification from PrepInsta**: Completed certification that emphasizes skills in Python programming for data analysis
- **Data Science Internship** from Innomatics Research Labs, [November, 2024] – [October, 2024]: Developed predictive models and conducted data analysis to drive insights and enhance decision-making.

Declaration

- ✓ I hereby declare that all the details mentioned above are in accordance with the truth and fact as per my knowledge and I hold the responsibility for the correctness of the above-mentioned particulars.