PAVAN BODANKI
linkedin.com/in/pavan-bodanki +1 (762) 728-0758 https://github.com/pavanbodanki
Pavan.Bodanki@uga.edu https://pavanbodanki.github.io/portfolio/

Education

University of Georgia (3.8/4) AUG 2022 - MAY 2024
Masters, Computer Science.
Sagi Rama Krishnam Raju Engineering College(9.02/10) JUL 2016 - MAY 2020
Bachelor of Technology,Electronics and Communication

Skills and Interests

Technical:
Programming:
JAVA,Python,C,C++,R,Rust,HTML,CSS,AngularJs,JSP,J2EE,JavaScript,PL/SQL,Spring,ReactJs, VHDL,Verilog
Tools:
Git,Amazon Web Services,Google Cloud Platform,Tableau, Power BI, SQL Server Management Studio, SSIS,numpy,pandas,ggplot,Eclipse,Vscode,Rstudio,Matlab,Jira
Interests:
Research market trends ,traveling,public health research

Experiences

UGA Department of Ecology - Graduate Research Assistant OCT 2022 - Present

- Enhanced UGA department of Ecology websites to present the visualizations on various diseases reducing page-load time by 40% .
- Analyzed disease data(1940 - 2023)for Global Infectious Diseases Intelligence Consortium. Visualized data and provided insights for disease origins.
- Deployed websites for pandemic prediction and emerging diseases.
- Designing a predictive DNN model to forecast global disease spread based on data from 114 countries.
- Designing LLM for the JEV disease prediction using the data from the USDA.

TATA CONSULTANCY SERVICES - Systems Engineer NOV 2020 -JUL 2022

- Utilized Agile methodology to develop a full-stack system for Thomson Reuters clients.
- Resolved critical security vulnerability in log4j in 48 hours and was awarded as best employee.
- Migrated two platforms learnlive and checkpoint learning databases to Amazon Web Services while remodeling the platforms.
- Revamped client website with added transition pages and modernized legacy code, including jar file updates.
- Automated the certificate creation from the database stored procedures.
- Designed certificate generation service with end-to-end encryption including the database access ,front-end and back-end layers.
- Regularly addressed bug backlogs, ensuring a minimum of 10 issues resolved per production release.

TATA CONSULTANCY SERVICES - Intern JAN 2020 - MAR 2020

- Collected data about the market reports that are required about various sectors for market research from multiple teams across the client projects.
- Investigated on the patterns of reports generated from 2018 to 2019 using regression,clustering and time series analysis.

- Created a predictive model to anticipate user needs for reports; insights from this model improved the cache hit ratio by 40%.
- From the output of the recommendation engine implemented a pre-caching mechanism to store the reports before-hand.

Projects

RUST crate:
- Crafted and published a secure Rust library (crate) for graph algorithm implementation, ensuring robustness and efficiency, and made it available to the Rust developer community through the Rust Crates repository.

Movie Booking System:
- Developed a booking system using ReactJs,Spring and Mysql having the features of booking,scheduling and maintenance.Also added the recommendation system feature to the system using the data mining techniques.

Tennis match predictor:
- Engineered an advanced tennis-focused web application capable of extracting real-time player statistics directly from Wikipedia. Utilized sophisticated SQL queries to analyze the gathered data, enabling accurate prediction of tennis match outcomes.

Smart India Hackathons(SIH):
- SIH 2018-E-Governance application--Developed an Android app emphasizing offline functionality and end-to-end encryption using firebase and android studio.
- SIH 2019-Cisco Meraki router--Customized Cisco Meraki router with splash page integration, video calling, and an nltk-powered chatbot.

Video detection and counting:
- Built a RCNN model using deep learning techniques to determine the vehicles passing through a particular Region of interest area.Also implemented YOLO as an initial test process.

Knee cartilage segmentation:
- Developing an CNN model using deep learning techniques to analyze Knee-cartilage MRI scans and predict optimal timing for arthroscopic surgery in arthritis patients.

ECG signal in domain analysis:
- Optimized ECG signal analysis by adaptively compressing signals and applying advanced classification algorithms using a modified Inception Block and LSTM, enhancing both diagnostic efficiency and robustness.

Certifications

- Attained IBM data scientist specialization from Coursera.
- Gained cloud knowledge on GCP and AWS through certifications.
- Machine learning specialist certification through Coursera and Udemy.

Leadership & Activities

Spardha hackathon - Student Organizer OCT 2019 - DEC 2019
- Organized a 24 hour hackathon at college while analyzing the feasibility of the projects to be done in a specific time span.

Workshop - Student Coordinator JAN 2019 - FEB 2019
- Curated workshop topics and partnered with Robokart for event coordination.