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PAVAN BODANKI

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<https://github.com/pavanbodanki>
<https://pavanbodanki.github.io/portfolio/>

Education

University of Georgia (3.7/4)

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, Angular Js, JSP, JavaScript, PL/SQL, Spring
Tools: Git, Amazon Web Services, Google Cloud Platform, Tableau, Power BI, SSMS,
SSIS, numpy, pandas, ggplot

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.
- Designing a predictive DNN model to forecast global disease spread based on data from 114 countries.

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.
- 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 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%.

Projects

RUST crate:

- Crafted a secure library(crate) for implementing graph algorithms using rust.

Tennis match predictor:

- Developed a web app that pulls real-time player statistics from Wikipedia.
- Derived match predictions using SQL queries.

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 model using deep learning techniques to determine the vehicles passing through a particular Region of interest area.

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.