Sowmya Cheedu

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Computer Science graduate student with previous experience as a Programmer Analyst, having good knowledge of data structures and algorithms, database management, problem-solving abilities, and outstanding soft skills.

EDUCATION

Master of Computer Science   *August 2022 – May 2024*

Indiana University**,** Bloomington, Indiana, USA   **CGPA: 3.63/4**

Bachelor of Technology in Electronics and Communication Engineering   *August 2017 – July 2021*

Sreenidhi Institute of Science and Technology, Hyderabad, India   **CGPA: 8.55/10.0**

SKILLS

Programming Languages: Python, Java, JavaScript, C, C++.

Databases: MySQL, PostgreSQL, NoSQL.

Web Technologies: Html5, CSS, React, Restful API Services.

Tools/Framework: Google Cloud, Flask, Django, Dockers, Visual Studio, VSCode, Jupiter hub, Tableau, Power BI, GIT, Gitlab, JIRA, Eclipse, Android Studio.

Others: Data Structures, Applied Algorithms, Artificial Intelligence, Probability and statistics, Software Engineering, Theory of Computation, Operating Systems, Machine Learning, Data Mining.

PROFESSIONAL EXPERIENCE

Programmer Analyst Trainee - Cognizant Technology Solutions | Hyderabad, India   *September 2021 – July 2022*

- Developed a website using HTML, CSS, and JavaScript, resulting in a 30% increase in user engagement within the first month of deployment.
- Contributed function snippets to the core code base for a prestigious university client project, enabling seamless feature integration and timely fulfillment of all client specifications.
- Actively participated in bug fixing and deployment activities, reducing critical bugs by 40%, ensuring seamless project operation
- **Technologies**: Oracle DB, Python, HTML5, CSS, JavaScript, PL/SQL**.**

Android Developer Intern – Coign Consultants | Hyderabad, India   *June 2019 – July 2019*

- Designed an Android application using Java and Android Studio, enabling scheduled SMS delivery based on specified timings and frequencies.
- Employed Android Studio to visualize and optimize the application for both iOS and Android platforms, enhancing cross-platform compatibility and accessibility.
- **Technologies**: Java, Eclipse, Android studio.

ACADEMIC PROJECTS

Home Credit Default Risk (Machine Learning, Python) 🔗   *January 2023 – May 2023*

- Implemented three neural networks using PyTorch Lightning for classification in the final phase of the HCDR project.
- Conducted comprehensive exploratory data analysis (EDA), including visualizations of data distributions and applied the insights for feature engineering.
- By employing optimization techniques and tailored loss functions, the model achieved an accuracy of 90%

Game Planner (React.JS, Express.JS, Node.JS, MongoDB) 🔗   *January 2023 – May 2023*

- Developed Game Planner, a website that simplifies sports room and court reservations, using the MERN Tech Stack (MongoDB, Express, React, Node.js).
- Used custom databases and APIs, utilized Agile methodology for efficient project management.
- This experience highlighted my ability to work effectively in a team, demonstrating technical proficiency and a customer-centric mindset, while honing my skills in web development and database management

Time Series Prediction Model for the Prediction of COVID - 19 (Python, RNN) 🔗   *June 2021 - July 2021*

- Designed a model for predicting the number of COVID-19 patients and subsequently used for forecasting future cases.
- Covid cases of India in 2020 were taken for the dataset. It consists of 2000 rows and columns such as date, state, death count, cases count
- Implemented LSTM (Long Short-Term Memory) network as the driving force to develop this model.

CERTIFICATIONS / SEMINARS

- Scored A+ in Database Management Certification Exam conducted by NPTEL
- Delivered seminar presentations on topics of interest including image steganography using LSB and night vision technology.
- Attended workshops on AI and its evolution, implementing the gained knowledge in technical contests.
- Participated in the Google Hackathon contest 2021, collaborating with teammates to develop innovative solutions.