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Neha Reddy Bogireddy

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EDUCATION

George Mason University **Fairfax, Virginia, USA** **Aug 2022 - May 2024**
- **Masters in Computer Sciences**, GPA: 3.4/4
- **Relevant Coursework:** Software Engineering for the WWW, Database Management, Software Testing, Data Mining

Mahindra University **Hyderabad, Telangana, India** **Aug 2018 – Jun 2022**
- **B.Tech in Computer Science and Engineering**, GPA: 8.72/10
- **Relevant Coursework:** Data Structures and Algorithms, Software Architecture, Object Oriented Programming, NLP

SKILLS

- **Programming Languages:** Java, Python, GoLang, JavaScript
- **Web Development:** HTML, CSS, ReactJS, Node.js, Bootstrap, MongoDB, Express, Next.js, React Native, Tailwind CSS.
- **Tools and Frameworks:** SQL, Figma, Docker, Oracle, Tensorflow, NLTK, Jupyter Notebook, Google Colab.
- **Data Analysis and Visualization:** Pandas, NumPy, Matplotlib, Seaborn.
- **Others:** Swift, Android App Development, Git, Windows, Linux

PROFESSIONAL EXPERIENCE

Research Assistant **Humor In Times of COVID-19** **Jan 2021 - April 2023**
- Compiled a diverse dataset with over 1500 data points for enhancing humour sentiment analysis across categories and target demographics, to emphasize crisis adaptability notably during the COVID-19 pandemic.
- Leveraged Python, TensorFlow, and NLTK to develop and fine-tune the model that achieved 80-85% accuracy.
- Extracted and analysed over 10,000 tweets and Reddit posts, facilitating pandemic-specific insights. Engaged annotators for dataset labeling, and employed GPT-3 and Roberta models for sentiment and usage pattern analysis.
- Managed a team of 10, ensuring timely milestones employing tools such as GoogleColab, Overleaf, and Microsoft Teams.
- Published a research paper detailing innovative findings and conclusions at SocialNLP @ TheWebConf2023, significantly enhancing the accessibility and impact of research data for over 500 industry professionals.

Front-end Developer **Mahindra University, Hyderabad** **July 2019 – May 2020**
- Designed and built user-friendly University's Fest website, increasing user engagement by 15-20%.
- Enhanced user experience by improving registration completion rates by 20-25% by optimizing registration portals.
- Reduced page load time by using Bootstrap, HTML, CSS, and JavaScript for efficient design and integration with backend APIs.

PROJECTS

Little Lemon Restaurant Web App **Capstone Project** **July 2024**
- Built a fully functional React-based web application for a restaurant, demonstrating skills in front-end development, state management, and API integration.
- Utilized semantic HTML, CSS grids, and Figma for UX/UI design, and implemented a dynamic booking system with thorough unit testing and Git version control.

SleepyHollow Database Application **May 2024**
- Created a comprehensive end-to-end database application for a gym equipment sales company as part of an employee recognition program.
- Implemented a 3-tier enterprise model, including an Android mobile application integrated with Java server-side code.

Notes App **February 2023**
- Designed a simple notes application using Swift for iOS devices, resulting in increase in user productivity.
- The app allows users to create, edit, and delete notes, with a user-friendly interface for easy note management.

Maze Navigation with Q-Learning **December 2023**
- Engineered an agent to navigate mazes with static and dynamic obstacles using Deep Q-Learning and the Actor-Critic Algorithm.
- Utilized DQN models with hidden layers and an output layer for state-action values, enhancing state value evaluation.
- Achieved a 40% reduction in navigation time demonstrating the effectiveness of the solution in real-world scenarios.

ADDITIONAL ACHIEVEMENTS

- **Scholarship:** Awarded a scholarship for academic excellence during BTech.
- Guided 10 freshmen, coordinating weekly orientation activities and organized literature events for the university fest.
- **Girl's Soccer team:** Founding member and defender, leading the team to victories.