Prabin Sharma

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EDUCATION

University of Massachusetts Boston   Boston, MA

MS in Computer Science (GPA: 3.56/4.0)   Sep 2021 - May 2023

- **Relevant Courseworks:** Analysis of Algorithms; Object-Oriented Software Design; Machine Learning; AI; Mobile Applications; Computer Vision; Neural Network; User Interface Design

Kathmandu University   Kavre, Nepal

Bachelor of Computer Engineering   Aug 2014 - Sep 2018

EMPLOYMENT

Graduate Research and Teaching Assistant   **Dr. Funds's Lab**   **Sep 2021- May 2023**

- Designed and executed experiments to study human perception of micro-expressions in virtual avatars, subsequently creating a survey platform for in-depth analysis resulting in a 2x increase in user engagement
- Analyzed experimental data and survey responses to discern patterns and insights into human perception of micro-expressions in virtual avatars, facilitating informed conclusions and potential applications.
- <u>Leveraged Knowledge</u> in Python, Numpy, Pandas, Java, HTML, Tailwind CSS, Node JS, React JS, Django, Rest API, Debugging

Associate Software Engineer   **Cedar Gate Technologies, Inc.**   **Jan 2020 - July 2021**

Helps to develop and provide consultant to customers (*https://cedargate.com/*)

- Developed the mobile app module for 'HealthTrack,' resulting in improved healthcare data accessibility for over 10,000 patients, enabling real-time tracking of vital health metrics and enhancing remote patient monitoring capabilities.
- Consistently achieved department-wide improvement metrics based on QA scorecard, reducing customer support workload by 47% and IT workload by 20%.
- Developed and implemented a Selenium Test Automation Framework to facilitate scripting, scalability, modularity, process definition, reusability, and maintenance and reduce costs.
- <u>Leveraged Knowledge</u> in Java, Kotlin, Android SDK, JUnit, DI, Rest API, Firebase, Jira, C++, Google Map.

Software Engineer (ML) Intern   **Inspiring Lab.**   **Feb 2019 - Feb 2020**

- Resolved 20 issues in the Real-time vehicle number plate detection system, leading to a threefold reduction in survey completion time per user.
- Developed and refined machine learning algorithms and models for accurate license plate detection, resulting in a 40% increment in efficiency of the system.
- <u>Leveraged Knowledge</u> in Python, Numpy, Pandas, Java, HTML.

PROJECTS

Personal Website: https://prabinsharmaa.github.io/ (for additional information and projects)

Student Engagement Detection : Interactive visualization tool for biological pathways

- Designed algorithms and methods for detecting student concentration in an e-learning environment using ML techniques; prepared and published peer-reviewed journals regarding the project
- <u>Utilized</u>: Python, Tensorflow, Jupyter Notebook, Numpy, Pandas, scikit-learn, Google Colab

AI Summarizer (https://readifyai.netlify.app/**)**

- Improved project efficiency by integrating the ChatGPT API, achieving substantial enhancements in content summarization capabilities through the implementation of advanced AI techniques.
- <u>Utilized</u>: JavaScript, HTML, CSS, Node JS, Git, Chrome Dev Tools

Express Your Feelings

- Developed 'Express Your Feelings,' an Android app aimed at simplifying emotional communication for children with Autism, allowing them to convey their emotions through intuitive icons, triggering automatic messages to parents or caregivers for immediate support.
- <u>Utilized</u>: Java, Gradle, Android Studio, Firebase, Rest API, Kotlin, XML

SKILLS

Software: : Python, Java, Kotlin JavaScript, Git, npm, Android App Development, Rest API , Node JS, React JS, C, C++, SQL, HTML/CSS, Pandas, Numpy, Tensorflow, OpenCV