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INDUSTRY EXPERIENCE

Software Engineer 2 **Microsoft XBox** **Aug 2022 - Present**

- **Streamlined** the **moderation system** for **Microsoft Xbox** by creating and updating **internal tools** for human moderators.
- **Optimized** the **reactive moderation** experience by **18%** by **integrating** and **supporting** existing internal tools that enable **human moderation**.
- Deployed **proactive moderation** of **content** for Xbox and **reduced security and privacy threats** by nearly **40%**.

Software Engineer **Neurotrack Technologies Inc.** **May 2021 - July 2022**

- As a **Backend Engineer,** worked on building **non-invasive cognitive tests** for the **early detection** of **Alzheimers** and **dementia**, using **AWS Microservices**.
- **Conceptualized** the **innovative** idea of a **coaching** service to help customers improve their cognitive health, which had an **impact** on **100+ clients** within the first **3 months.**

Mitacs Accelerate Intern(Research) **Ethically Aligned AI** **Mar 2021 – May 2021**

- **Analyzed** literature across different domains in order to produce **proof-of-concept** for **validating ethics** in **AI**.
- **Iterated proof-of-concept** upon **feedback** from a diverse class of **businesses** to identify specific business needs for building **fair machine learning systems.**
- **Strategized** the **implementation** of a **common tool** for **validating ethics.**

Data Scientist Intern(Research) **Famwork** **Dec 2020 – May 2021**

- **Leveraged data science, visualization** and **statistics** for **integrating machine learning models** into **electronic health record systems** and built a **chatbot** for the patient portal.
- **Spearheaded** the **automation of the telehealth system** for the minimum viable product and improved accuracy of the system to **forecast diseases** the patient was susceptible to acquire, by **80%**.
- Demonstrated **passion to quickly learn** and **solve complex problems** and helped **influence** the **improvement** of **customer satisfaction** by **50%**, by **automating** the EHR system.

Software Engineer Intern **Makesto Infotech Private Limited** **May 2018 – Jul 2018**

- **Launched** a JavaScript plugin, which was used internally for **supporting 3D models** in the GL Transmission Format.
- Helped **formulate** a framework for **achieving dimensionality reduction** of 3D models by **30%**, with minimal data loss, in Python.
- Honed **interpersonal skills and communications** by **collaborating** with a team of **10+** people to **maximize** retail sales at **Target** by **80%**, incorporating 3D modeling.

EDUCATION/DEGREE

M.Sc. Computing Science, University of Alberta, Edmonton.
B.E. in Computer Science, Anna University, Chennai, India

SELECTED PROJECT COURSE WORK

- **Noise Eliminator in Active Learning (NEAL – 2020). Algorithms** to produce **highly accurate machine learning predictions** with a very **low amount** of **training instances. Improved** over **previous systems** by **30%**. **Python.**
- **Hybrid_UI - Intelligent User Interfaces (2021).** An **intelligent system** to improve **user interface** experience on websites for **geriatric** and the **visually impaired population.** Performed **data analysis and** tested using **hypothesis testing (A/B testing)** and conducted **experiments** on a control population of **30 people**. **Python**
- **Relation Extraction in Knowledge Graphs (2020). Natural Language Processing** based **algorithms** that focus on **relation extraction** between a pair of entities in Knowledge Bases using a **clustering algorithm**. **Python**.
- **Patented Visual Aid System (2017).** A **Visual Aid storytelling system** utilized in storytelling sessions for **visually challenged children** that consisted of an interactive computer and sensor system and when scenes from stories were fed to the computer, the sensors rose to depict the scene. **Used** by over **50+** schools. **Java, Matlab.**

SKILLS

Scripting languages: Python, Java, C++, C#, HTML, CSS, JavaScript, PHP
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, Keras, NLTK, Gensim, spaCy, TensorFlow, PyTorch
Databases: SQL
Programming Tools: Jupyter Notebook, Google Colab, Github, Excel
Platforms: Microsoft Windows, Ubuntu Linux, macOS
Cloud : Amazon AWS, Microsoft Azure
Others: Data Structures and Algorithms, Time management