Mahak Khurmi

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EDUCATION

University of Toronto, Downtown (St. George) Campus   Toronto, Canada
Hons. Bachelor of Science in Computer Science (cGPA: 3.91/4.0) **[3x Dean's Honor Scholar]**   Sep 2019 – **Dec 2023**
Major in Computer Science Specialist program with a Minor in Statistical Science [Focus in **AI**]

- New **Leaders Scholarship,** New College   Feb 2023
- Konrad Group **Digital Technology Scholarship**   May 2022
- New College **In-Course Scholarship**, with High Distinction   Mar 2022
- UofT Academic Excellence Award in **Sports (Tennis)**   Mar 2022
- University of Toronto **International Scholarship**: India   Sep 2019
- University of Toronto **Scholars Award**   Sep 2019
- Awarded by CBSE, India for being among **top 0.1% students in India** in Mathematics   Dec 2018

PROFESSIONAL SKILLS

- **(Proficient)**: Android Dev, AWS, Python, Typescript, Java, C++, Javascript, SQL, Node, MongoDB, Web Dev
- **(Familiar)**: OpenCV, React (Native, Hooks), Verilog, MIPS, Blender, R, C

WORK EXPERIENCE

***Software Development Engineer Intern** | **Amazon** | Toronto, ON*   June 2023 - Sept 2023
- Enhanced the search autocomplete on **amazon.com** to reduce friction while discovering the beauty products for more than **2 million customers monthly** and help them personalize their search query.
- Developed the backend of the project using **AWS CDK** pipeline and used **Lambda** function to populate the **DynamoDB** entries using **AWS IAM** and **S3**, and created the **ML architecture** using Amazon's internal tools.

***ML Engineer** | **Huawei Canada** | Markham, ON*   May 2022 - May 2023
- Created **4** Android apps from scratch that implemented TFLite models pipeline & PnP algorithm for gaze tracking, which were used by over **200 developers** in China and Canada office for validating the ML models.
- Researching and Implementing deep learning models and its pipelines to solve the problem of **gaze estimation** using 3D-face-based and eye-based models using **OpenCV** in **TensorFlow** in a team of **7 developers**.

***Research Assistant** | **Harvard Business School** | Toronto, ON*   Sept 2022 - Dec 2022
- Developed a model to estimate the causal effects of tweets, scraped using **Twitter API**, on companies' output data (bonds, equity, innovations, product's portfolios, etc) using **TensorFlow** in a team of 3 students

***Software Engineering Intern** | **HypeDocs** | Toronto, ON*   Jun 2021 - Sep 2021
- Implemented functionalities in the HypeDocs software like pop-up modals, csv importer, csv download and batch writes using **React** to support the launch of Public Page feature, which is now used by **over 2000** users monthly
- Improved reliability by migrating the data of **300** customers to **Google Firebase** and used **netlify** for the launch

***Research Assistant** | **The Hospital for Sick Children** | Toronto, ON*   May 2021- Aug 2021
- Designed a **ML model** capable of performing automatic lesion boundary detection using dermoscopy images
- Devised deep learning models in **PyTorch (Python)** using architectures like **UNet**, **Attention Net**, Pool Nets and Att-UNets and tested them on the collected dataset to find the best architecture for the project

PROJECTS

- **Musical Style Transfer with CNNs** | *Tensorflow, CNNs, Python*   [Demo] [Code]
- **Software: Advanced Conference Management System** | *Java*   [Demo] [Code]
- **JS Library for Shots Visualization of RacketLon Sports** | *Server API, JavaScript, HTML*   [Demo] [Code]

LEADERSHIP EXPERIENCE

***General Executive at University of Toronto Artificial Intelligence Group** (UofT AI)*   Sep 2020- Present
- Managed a team of **25** students responsible for UofT AI's marketing and promotion operations for the annual StartAI conference with **almost 2,000** participants.

***Operations Associate at Google Developer Student Club** (UofT, St. George)*   Aug 2021 - Apr 2022
- Coordinated with the operations and outreach executive team to plan and execute events and programs for about **200** university students over a span of 2 months to encourage and aid student's involvement in technology

Instructor for LearnAI program in Africa at AI Commons   Dec 2020- Jan 2022
- Taught **ML** concepts as a team lead of **20** people to **300+** students from the countries of **Kenya, Ghana, Nigeria, Algeria, and Mexico** under the LearnAI in Africa initiative.