# Aditya Dhir

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## EDUCATION

**University of Michigan - Ann Arbor**                                                                 Ann Arbor, MI
*Bachelor's in Computer Science*                                                                   *Aug. 2020 – May 2024*
- Relevant Courses: Data Structures & Algorithms, Introduction to Machine Learning, Web Development, Foundations of Large Language Models, Database Management Systems, Software Engineering, Artificial Intelligence, Computer Vision, Honors Statistics and Data-analysis, Computer Organization

## EXPERIENCE

**DISH Networks**                                                                                        Denver, CO
*Machine Learning Intern*                                                                          *May 2023 - Aug 2023*
- Employed ChatGPT in conjunction with the OpenAI API and Elasticsearch to enhance content curation.
- Streamlined indexing of pre-trained models from Hugging Face into the SlingTV database for improved efficiency.
- Achieved a 30%+ boost in content curation process, with the solution being pushed to production.
- Awarded for best embodying the company value "Curiosity" amongst 72 interns.

**Noteable**                                                                                           Palo Alto, CA
*Data Science Intern*                                                                              *May 2022 - Jun 2022*
- Developed a predictive data visualization tool using TensorFlow, intelligently suggesting graph types from dataset.
- Enhanced user experience and decision-making efficiency by automating graph selection based on data insights.

**Crownpeak**                                                                                         Palo Alto, CA
*Software Development Engineering Intern*                                                          *Feb. 2021 - May 2021*
- Managed a GDPR/CCPA database comprising of more than 10,000 unique tags and cookies.
- Utilized SQL to efficiently organize extensive sets of RegEx queries within the database.
- Built a scalable database ensuring cookie compliance and integration into the Tag Management Platform.

**Mindstrong**                                                                                      Mountain View, CA
*Data Science Intern*                                                                             *June 2019 - Aug 2019*
- Designed and conducted a study on neural activity's relation with motor control-based typing patterns on phones.
- Devised a system comprising of an Android app, Web app, and Microcontroller-based Wi-Fi trigger.
- Integrated an EEG headset to record subjects' electrical brain activity.
- Analyzed data and leveraged pandas, MNE, and SQL for database implementation.

## PROJECTS

**Google Simulator**                                                                                  Ann Arbor, MI
*Project Lead*                                                                                    *Oct. 2022 - Dec. 2022*
- Implemented information retrieval concepts and parallel data processing with Map Reduce.
- Scaled dynamic web pages and web search using Service-Oriented Architecture and REST APIs.
- Ensured data security and compliance with best practices through IAM roles and encryption mechanisms.

**Seek and Assist Bot**                                                                               Ann Arbor, MI
*Computer Vision Lead*                                                                           *Sept. 2022 - Dec. 2022*
- Constructed a robot with advanced line-following functionalities using CAD, Arduino, and Ultrasonic sensors.
- Utilized Raspberry Pi and OpenCV for efficient computer vision software for gun detection with 90% accuracy.

## SKILLS & INTERESTS

**Programming languages**: Python, C, C++, Kotlin, Java, HTML, SQL, Javascript, CSS
**Tools/Frameworks**: MongoDB, Node JS, Pytorch, Tensorflow, PostgreSQL, Git, AWS
**Languages**: English, Hindi, French
**Interests**: Rock climbing, Biking, Hiking, Cooking, Soccer, Basketball