

VAIDEHI SINHA

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OBJECTIVE

I aspire to capitalize on my dedicated work ethic, leadership abilities, and fervour for AI, machine learning, and deep learning by excelling in a Master of Science in Computer Science program. I look forward to diving into machine learning, gaining in-depth knowledge of how systems learn and adapt without explicit instructions. By combining the program's rigorous academic training with my commitment and creativity, I aim to drive meaningful contributions to AI, machine learning, and deep learning, ultimately contributing to technological innovation and societal advancement.

EDUCATION

- Bachelor of Technology:** Computer Science Engineering, MIT World Peace University; **Aggregate:** 9.80
- Higher Secondary Certificate:** Sri Chaitanya Junior College, Maharashtra State Board; **Aggregate:** 86.15%
- Secondary School Certificate:** Delhi Public School, CBSE; (School Rank: 1, District Rank: 2) **Aggregate:** 97.4%

PROFESSIONAL/INTERNSHIP EXPERIENCE

Name of Company: Long Term Industrial Development Co. Ltd., Tokyo, Japan (METI Internship) **(Oct 2023 to Present)**

Title: AI/Application Development Engineer Intern

Duties: Creating AI/ML/DL algorithms for agricultural concerns, enhancing LTID's website, and prototyping a mobile app.

Name of Company: York University, Toronto, Canada (MITACS GRI)

(June 2023 to Sept 2023)

Title: Globalink Research Intern

Duties: Worked on two research projects being curated into papers: GPP prediction to comprehend the consequence of flood and precipitation on vegetation in Kishtwar and mapping deforestation in the Amazonian rainforests.

Name of Company: Script Winter of Code

(Dec 2021 to Feb 2022)

Title: Open-Source Contributor

Duties: Contributed to 2 organizations: Pattern House (curating Python scripts for various patterns) and MLCrate (solving issues related to ML Algorithms).

PATENT AND PROJECTS

MINOR PROJECTS:

Title: Pune Municipal Corporation Grievance Management Portal

(Aug 2022 to Nov 2022)

Details: Created a web-based platform for managing grievances lodged with the Pune Municipal Corporation and designed the UI as well as front-end using Figma, ReactJS, and Bootstrap, and utilized MySQL for database management.

PROFESSIONAL PROJECTS:

Company: York University, Toronto, Canada (MITACS GRI)

(June 2022 to Sept 2022)

Title: Unveiling Ecosystem Vitality and Carbon Dynamics: The Crucial Role of Gross Primary Productivity Calculation

Details: Used CatBoost and XGBoost to calculate GPP, and understand the impact of EVI, Solar Shortwave Radiation, Precipitation Level and Temperature on the GPP of the Kishtwar region in Jammu and Kashmir.

Company: York University, Toronto, Canada (MITACS GRI)

(June 2022 to Sept 2022)

Title: Comparing UNet and LSTM models to map Amazon deforestation for SDG 15.3.

Details: Developed and evaluated predictive models using UNet and LSTM networks for mapping and predicting deforestation in the Amazon Rainforest and further analyzed their significance in achieving SDG15.3.

Company: MIT World Peace University

(May 2022 to May 2023)

Title: GrainLog (South African Patent)

Details: Formulated the solution and led the software segment of GrainLog, a data driven project aimed at revolutionizing primitive grain storage systems to address supply chain issues and minimize the wastage of food grains in warehouses.

TECHNICAL PAPER

Journal Name: IEEE

Paper Title: A Systematic Review of the Applications of ARVR in Ameliorating the Symptoms of Neurobiological Disorders

Paper Type: Conference Technical Paper (ICCUBEA 2023)

Issue: IEEE Xplore (Accepted - Awaiting Publication)

Journal Name: IEEE

Paper Title: NeuroSight: Brain Tumor Classification using Deep Learning Techniques

Paper Type: Conference Technical Paper (CAISAI 2023)

Issue: IEEE Xplore, 9 October 2023 - <https://ieeexplore.ieee.org/document/10270090>

Journal Name: ICT for Intelligent Systems. ICTIS 2023. Smart Innovation, Systems and Technologies, vol 361. Springer

Paper Title: Analysis of Genomic Selection Methodology in Wheat Using Machine Learning and Deep Learning

Paper Type: Conference Review Paper (ICTIS 2023)

Issue: SIST, volume 361, 9 September 2023 - https://link.springer.com/chapter/10.1007/978-981-99-3982-4_39

Journal Name: International Journal of Research and Analytical Reviews

Paper Title: Forearm Bone Fracture Detection Using DenseNet

Paper Type: Technical Paper

Issue: Volume 9 Issue 2, April 2022 - https://ijrar.org/viewfull.php?&p_id=IJRAR1CNP016

COMPUTER SKILLS

- **Operating System:** Windows, Linux
- **Languages:** C, C++, Python, HTML, CSS, JavaScript, JQuery, PHP, Java, Dart, Kotlin, MATLAB
- **Database:** SQL, XQuery, XML, MongoDB
- **Application Software:** MS Office, Android Studio, Visual Code, Jupyter, Eclipse

CO-CURRICULAR ACTIVITIES

- Represented as Vice President, Joint Secretary, and Technical Team Member for Society of Women Engineers, MITWPU Student Affiliate. **(2021 to Present)**
- Served as Global Ambassador for Society of Women Engineers and WomenTech Network **(FY23, FY24)**
- Worked as Advisory Board Member, Vice President and Head of Public Relations for Computer Society of India, MITWPU Student Chapter. **(2021 to Present)**
- Content Team Member at Google Developer Student Clubs, MITWPU Student Chapter. **(Aug 2021 to Sept 2022)**

EXTRA CURRICULAR ACTIVITIES

- **Awarded with IEEE WISC'23 Scholar** which is offered to exceptional undergraduate and graduate women throughout the world to recognize and strengthen their technical career – only recipient from India. **(July 2023)**
- Awarded **MIT-WPU Merit Scholarship** in all years of engineering for consistently being in the top 1% of my batch
- **Ranked first** in HackMITWPU Innovation Hackathon: MadeInMITWPU and Ideathon which had over 3500 students in over 500 teams from all departments. **(March 2023 and Jan 2022 respectively)**
- **Represented as Collegiate Leadership Institute Mentee** for CLI Program conducted by SWE. **(Sept 2022 to Mar 2023)**
- **Won Blackcoffer: Insights 42** for my article on 'Gender Representation and Diversity in Advertising.' **(July 2022)**
- **Scholarship Recipient** for Women in Tech Global Conference 2022. **(May 2022)**
- **Awarded WE Local'22 India Scholarship** to attend the WE Local'22 Bengaluru, conducted by Society of Women Engineers and **Runner-Up in Research Poster Presentation Competition** at WE Local'23 **(April 2022, April 2023)**
- **Runner up** in Smart Seek, a Technical Poster Making Competition for the topic Quantum Computing. **(March 2022)**
- **Ranked first** in Dissect: Bring-O-Pedia, organised by MIS & Analytics Club, of IMI, Kolkata during an event, Confero for my presentation on the topic Artificial Emotional Intelligence. **(Feb 2022)**
- **Selected as one of the top 18 finalists** among 250+ teams in Hack-A-Web-Team hackathon conducted by the Entrepreneurship Cell NIT-Bhopal. **(Feb 2022)**
- **Winner of Round 1 of Idealn10**, a Presentation Competition conducted by MIT-WPU School of Computer Engineering and Technology in association with IET Pune Local Network. **(Dec 2021)**
- Secured **AIR 30** in National Engineering Olympiad 4.0. **(July 2021)**