

JASKARAN SINGH WALIA

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RESEARCH EXPERIENCE:

Institution: Massachusetts Institute of Technology, USA

March 2024 - Present Title:

Deep Learning based Affordance-Aware Generation of 3D Objects from 2D Images Summary: Utilized vision techniques to learn affordances and reconstruct 2D representations for fabricating objects and contributed to....

Institution: Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi

May 2024 - Present

Title: Deep Learning-based Affordance-Aware Generation of 3D Objects from 2D Images **Summary:** Selected for a fully funded AI-intern role and contributed to the research of the recurrent winning team of the BraTS.....

Institution: The University of Cambridge, Cambridge

October 2023 - March 2024

Title: Lifelong multi-modal facial expression analysis using causal replay and multi-task continual learning

Summary: Independently developed a multimodal continual learning architecture and strategy for facial expression analysis in robots for HCI. Proposed a method to overcome forgetting utilizing a causality ranking-based CL replay....

INDUSTRIAL INTERNSHIPS:

Assurant, Data Science Internship (Fortune 300)

May 2023 – August 2023

- Selected as a summer intern working on 3 projects with stakeholder feedback & deployed on cloud & servers....
- In a team of six, utilized PowerBI, Tableau, and Excel to create a BI dashboard and process mining visuals interlinking warehouse data from 30+ Excels.....

ACADEMIC QUALIFICATION:

Computer Science, Vellore Institute of Technology, CGPA: 9.08

**B.Tech,
April 2021 - April 2025**

TECHNICAL SKILLS:

Languages: Python, R, Java, C, C++, HTML/CSS, JavaScript, Matlab, SQL, Shell scripting, Shell, Bash.... **Developer**

Tools: VS Code, Anaconda, Cloud (Azure/GCP), GPT/LLM API integrations, Tableau, PowerBI....

Technologies/Frameworks: GitHub, Linux, Cassandra, Data Bricks, Docker, Excel, TF/Keras/Pytorch

CERTIFICATIONS /ADDITIONAL COURSES:

- Deep Learning (CS7015) - Indian institute of Technology, Madras, January 2023
- Supervised Machine Learning - Stanford & DeepLearningAI, November 2022
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ACHIEVEMENTS/CO-CURRICULAR/EXTRACURRICULAR:

- Recognized for outstanding research in the prestigious SURGE program with Dr. Elizabeth & Dr. Verkey Cherian Award for Best Research, IIT Kanpur.
- Received a Fully Funded grant for an International Research Program at MBZUAI, Abu Dhabi (UGRIP). Conducted cutting-edge research in computer vision and participated in the Brats Challenge. • Attended

LEADERSHIP ROLES:

Google Developer Community

November 2022- May

2024 Lead, Data Science Department

- Led the data science division in projects and research; delivered seminars and guided teams in competitions....
- Held 3 recruitment drives with 1000+ applications & interviewed over 200 people to form a competitive team....

COMMUNITY INVOLVEMENT:

- Topmate, Mentor (2024 - Present)
- Guided 300+ students toward international internships and top university admissions.
- Podcasts, Seminars, and Webinars, Speaker (Ongoing)