

INDRAJEET HALDAR

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EDUCATION

Harvard University, Graduate School of Design

Master in Design Studies, Technology, Distinction

Cambridge, MA
2022

Coursework in Computational Design, Data science, Advanced topics in Machine Learning, Mathematics for CS, Discrete Mathematics, Network and Graph theory, Real Analysis and Computation in Data Science, Responsive Design and Human Computer Interaction

BMS College of Engineering

Bachelor of Architecture, GPA : 3.88

Bangalore, India
2019

Electives in Urban planning, product design and fabrication

PROFESSIONAL EXPERIENCE

Autodesk Inc.

Research Engineer, ML

(’23-Current)

Part of the Neuron Team, working on ML features for the Dynamo Software environment. Primarily building data-processing pipelines and performing preliminary data analysis.

Guest Lecturer at RV College of Architecture and BMS College of Engineering on Computational Design and applied machine learning for architecture (2019)

Design lead , aerospace club, Propel Lab -3, R&D Department, led a team of 12 to design and fabricate multiple drones using generative design techniques (’14, 15)

INVIVIA Inc.

Full-Stack Developer

(’22-Current)

Engineering counterpart to the research being done at REAL, primarily prototyping based full-stack role focusing on fabrication and ML. Building ML powered devices to measure human experience and behavior.

SKILLS

Coding: Python + TensorFlow + PyTorch RStudio and Stata for machine learning and data analysis, C#, JS – MERN. Django for webdev

Development Environments: Visual Studio C and C#, Specifically ML agents, Grasshopper plugins using C# and Visual Studio. Also experienced in AWS deployments and creating docker instances for ML pipelines.

Harvard University, Graduate school of Design.

Research Associate + Teaching Assistant

(’21 – Current)

Researcher at the Harvard REAL Lab and the Laboratory for Design Technologies. Digital prototyping of web applications, user modeling, machine learning + taught coding + administrative tasks in the courses : SCI 6338, VIS-2224, VIS-2314, SCI-6483

3D Modelling: Rhinoceros + Grasshopper, Revit + Dynamo, Autodesk Inventor, Catia V5, 3DS Max, Blender, SketchUp, Fusion 360, ArchiCAD, AutoCAD

HONOURS AND AWARDS

Daniel L. Schodek Prize for Technology and Sustainability Harvard University, Graduate school of Design (2022)

Teaching Assistant Award, Harvard University, Graduate school of Design (2022)

Commendation, John C. Bartholomew Award, British Cartographic Society (2021), Data Science Focused

Full Fact, Web Developer.

Internship

(Summer ’21)

Created interactive web tools for the Front End + Data Visualization tools and explanatory and interactive tools to explain the workflows to possible donors.

Winner of the 6th annual M.Des Research Grant, Harvard University, Graduate school of Design (2021)

Annual thesis awards, National Institute for Advanced Studies in Architecture and Council of Architecture, India, Zonal winner, Top 10 Nationally (2018)

LEADERSHIP + PROFESSIONAL DEVELOPMENT

Reviewer and Critic for Computational Design and Applied Machine learning courses - At the Harvard Graduate School of Design (’22 , ’23, ’24)

Guest Speaker at the Architecture – Technology Explorations at Harvard University (2022)

Society of Automotive Engineers, Aero Design East, Van Nuys, California, 14th and 13th (’15 and ’16 respectively)