

# AKSHAY IYER

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Obsessed with building something impactful using AI. Exploring how to make AI automation creation as frictionless as possible.

## EDUCATION

### Columbia University in the City of New York

Aug 2023 - Dec 2024

GPA: 4.0825/4.0, *MS in Computer Science*

*New York*

- Relevant Coursework : Generative AI for Code, Cloud Computing, Eng. Software as a Service, Blockchain and Web3.0, Databases

### Indian Institute of Technology Bombay

Jul 2019 - Aug 2023

GPA: 9.21/10.0, *BTech with Honors in Electrical Engineering, Minor in Computer Science*

*Mumbai*

- Relevant Coursework : Technology Venture Creation, Data Structures and Algorithms, Analysis of Algorithms, Programming for Data Science, Introduction to ML, Advanced ML, Intelligent Agents and RL, DL for NLP, Optimization in ML, Digital Image Processing

## PUBLICATIONS

- Lokesh N., Akshay Iyer, Sunita Sarawagi, Abir De, “**Training for Continuous Treatment Effect Estimation using Gradient Interpolation and Kernel Smoothing**”, accepted, AAAI-24
- Akshay Iyer\*, Kanad Pardeshi\*, Nikunj Goyal\*, Pranamya Kulkarni\*, Abhilasha Sancheti et al., “**A method to generate image descriptions with varying levels of detail**”, filed patent (USPTO), Adobe reference : P11617-US

## RESEARCH EXPERIENCE

### Adobe Research India, Multimodal Research Group

May 2022 - Jul 2022

*ML Research Intern | Guide: Dr. Vishwa Vinay*

*Bangalore*

- Coordinated in a team of 4 to formulate, present and solve a research problem after extensive literature survey
- Implemented existing algorithms rapidly and created the first controllable image description model to take continuous real value input

### IIT Bombay, InfoLab

Jul 2022 - Nov 2022

*Bachelor of Technology Thesis | Guide: Prof. Sunita Sarawagi*

*Mumbai*

- Developed in a team of 2 on large codebases to design and execute loss functions for counterfactual estimation in deep networks
- Managed significant improvement in every existing architecture on adding proposed loss terms using Gaussian Process estimation

## OTHER EXPERIENCES

### Founder at Flomi AI

Sep 2023 - Jan 2024

*AI-Agent-based automation platform*

*New York*

- Led customer discovery sessions with 50+ enterprise software users and 20+ automation experts to understand their daily tasks
- Developed and launched an MVP in LangChain and Python to automate manual Excel processing tasks for accounting firms

### Founder at Inntwine : Innovation facilitator

Sep 2023 - Jan 2024

*Ruby on Rails platform for Columbia students*

*New York*

- Led customer discovery sessions with Columbia students to understand where they feel a lack of entrepreneurship support
- Developed and launched an MVP in Ruby on Rails, to help Columbia students find the right university resources and connections

### Web3 DApp for freelancing on Ethereum Blockchain

Oct 2024 - Dec 2024

*Course Project | Guide: Prof. Junfeng Yang | [Code](#)*

*New York*

- Developed a web3 freelancing app and UI for automatic payment and job completion verification on the Ethereum blockchain
- Built a digital contract including third party verification using Solidity, and web3.js for server and client side javascript code

## OTHER EXPERIENCES

- Developed 2 [game simulators](#) in Python with complex dynamics and GUIs for 30+ CS students as TA for the course COMS W4444
- Conducted tutorials and doubt solving sessions for 40+ students as Teaching Assistant for course MA207: Differential Equations 2
- Counseled a group of 12 first year undergraduates in academic, social and personal matters as Institute Student Mentor in Senior year

## SKILLS

**Programming:** Python, Ruby, C++, Java, Javascript, SQL, AWS, GCP, Solidity, MATLAB, Embedded C, Assembly language, VHDL

**Libraries:** Pytorch, Tensorflow 2.0, Scikit-learn, Pandas, Matplotlib, Numpy, OpenCV, Tkinter