

Kartik Chincholikar

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EXPERIENCE

Equitech Futures

March 2022 – April 2023

Associate Researcher, Teaching Assistant

Chicago, IL (Remote)

- **Identified risk factors** for chemotherapy-induced nausea and vomiting (CINV) in breast cancer patients
- Collaborated with domain experts and **enabled efficient distribution of expensive antiemetic medicines**
- Assisted students with data cleaning, EDA, feature selection, NLP(transformers/BERT) and Bayesian modelling
- Evaluated the feasibility of AI solutions for various domain-specific problems

YouTube

January 2020 – Present

Creator (@Kartikc)

Pune, India

- Elucidated Machine Learning concepts using visualizations and simulations, **totalling 1300+ hours of watch time**
- **Gained recognition from Professors and leading AI Researchers** from Qualcomm AI Research, the University of Waterloo, the University of Amsterdam, the University of Chicago and the University of Oxford
- Implemented Machine Learning models from scratch with NumPy
- **Highlights:** Group Equivariant Neural Networks, Manifold Hypothesis, Statistical Learning Theory

Badminton School

September 2017 – January 2021

Founder

Pune, India

- Built an annotation tool to manually collect the data from videos of Badminton players
- Derived insights from sequential data of **40+ Badminton players** to find "Patterns of Play"
- Taught the basics of Badminton on YouTube, reaching **2.5 million viewers** and garnering **34,000 Subscribers**
- Coached beginner and intermediate badminton players of all ages

PROJECTS

Group Equivariant Neural Networks

- **Improved upon Patchcore-inspection** (Industrial Anomaly Detection) by replacing non-equivariant convolutional neural networks with pre-trained equivariant ones
- Visualized and animated a forward pass through an equivariant neural network architecture
- The resulting video was acknowledged by leading researchers Taco Cohen (Qualcomm AI Research), Gabriele Cesa (Qualcomm AI Research), and Erik Bekkers (University of Amsterdam)

Gamification

- Implemented a gamified points system which motivated **300+ runners** to train consistently
- Built an Android app to display leader-boards and to enable runners to share post-run photos and screenshots with friends

EDUCATION

Maharashtra Institute of Technology

2012 – 2016

BE Mechanical Engineering

Savitribai Phule Pune University, India

- **Coursework:** Operations Research, Industrial Automation, Manufacturing, Materials Science, Numerical Methods

SKILLS

Languages : Python, SQL, Java, HTML/CSS, JavaScript

Machine Learning Stack : ETL, EDA, NumPy, matplotlib, pandas, Scikit-Learn, PyTorch, PyG, TensorFlow

Tools : Google Cloud Platform (BigQuery, Vertex AI, Cloud Storage), GitHub, Notion, Adobe Photoshop, Adobe Premiere Pro, Canva