

KARTIK CHINCHOLIKAR

BIO

A Machine Learner who will get from point A to B using Google search and Large Language Models

TOOLS:

Python Libraries:

numpy, tensorflow, pytorch, pytorchgeometric, scikit-learn, matplotlib, pandas, conda & Vector Databases

Other Technical Tools:

AWS Studio Lab, MATLAB, R. Java, Android Studio, AutoCAD, Ansys

Adobe Creative Suite & More:

Photoshop, Premier Pro, Audacity, Canva, Prompt Designing for Generative Al

Productivity:

Zotero, Github, Notion, Obsedian, Discord

SKILLS:

- Strong fundamentals in Linear Algebra, Probability and Calculus.
- · Ability to synthesise and communicate complex technical concepts clearly and concisely.

EDUCATION:

BE Mechanical Engineering

Maharashtra Institute of Technology, Pune, India First Class [2012-2016]

REACH ME AT:



+91-9922821694



kartikchincholikar.github.io



kartik.niszoig@gmail.com

EXPERIENCE

Equitech Futures [2022-2023]

• Research Associate

Worked with researchers from Oncology Department at the Kenyatta National Hospital on Breast Cancer patient data. We highlighted the risk factors which make patients receiving chemotherapy more prone to nausea and vomiting (CINV) Despite a small dataset size, the risk factors found corroborated with existing literature. I made a novel contribution to the Inclusion Criteria via a data cleaning procedure which make better use of domain knowledge.

• Teaching Assistant

I assisted students with their assignments on:

Python Foundations, Bayesian Modelling, and Data Visualization. I also had many insightful discussions on the feasibility of Al applications to various domains.

Machine Learning Storyteller [2020 - ...]

• A Study of the Manifold Hypothesis I compiled everything which excited me about this in a video. The video featured twice on popular Youtube channel "Machine **Learning Street Talk**".

· Simulations in Statistical Learning Theory

Ran toy simulations to understand the need to use domain knowledge to do feature engineering and also to choose a hypothesis class which is not too flexible, but flexible enough. Use of animation enabled easy exploration of topics such as the i.i.d assumption, PAC Learning, Feasibility of Learning, biascomplexity trade off, No-free-lunch theorem and the VC Dimension.

The resulting video was acknowledged by Professor Shai Ben David, who is a Professor of Theoretical Computer Science at University of Waterloo.

• Visualizing mapping between Neural Network Layers Visualized the non-linear mapping between the input layer and hidden layer as the simple NN gets trained on the XOR toy dataset.

Badminton School [2018-2022]

Sports Analytics

Made an annotation tool to manually collect the data of the badminton player to be analyzed.

Derived insights from the data to find common "Patterns of Play". These can be exploited during a match.

• Advertising and Content Creation

Started a **Youtube channel** teaching the basics of Badminton in Hindi, garnering 34k Subscribers.

SportShack [2016-2017]

Android Development

Build an Android app which enabled runners to share screenshots with friends.

Gamification

Designed a rating system to motivate runners to be consistent.