Tirth Joshi

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EDUCATION

- **Indian Institute of Technology** — Madras
  BS in Data Science and Application — 2021 - Present
  Relevant Courses: Machine Learning , Tools for Data Science , Python DSA , Database Management System

- **Indian Institute of Information Technology** — Vadodara
  B.Tech in Computer Science and Engineering — 2020 - Present
  Relevant Courses: Linear Algebra, Probability and Statistics, Design and Analysis Of Algorithms, Database Management System

- **Vedant International School** — Ahmedabad
  Class 12 (PCM); Percentage: 92.4 — 2018 - 2020

SKILLS SUMMARY

- **Languages**: Python, C, C++, Kotlin, Java, HTML5, CSS3
- **Frameworks**: Pandas, Numpy, Matplotlib, Scikit Learn, TensorFlow, Django
- **Database**: MySQL, Realtime (Firebase)
- **Android Development**: MVVM Artichture, Compose
- **Others**: RESTful APIs, GitHub, Excel, Google Sheets
- **Soft Skills**: Team Leading, Decision Making, German Language(Beginner)

EXPERIENCE

- **IIT Madras POD** — Teaching Intership
  Mentor — Aug 2022 - Present
  Math 2: Sep 2022 - Present   **Python:** Aug 2022 - Sep 2022

PROJECTS

- **Pocket Guard**: React, Android (Java), Django, and DRF
  An app that helps people to track their expenses, visualize them and find patterns in them.

- **Period Buddy**: JAVA, XML, HTML5, CSS3 / SCSS, JavaScript, Firebase and React
  A small gesture to make this period a bit more passable.
  An app that can find your periods buddies and also help non - period owners to help periods owners.

- **Gamer, A Discord Bot**: Java, MySQL
  Python based Treasure Hunt cum Quiz bot.
  Features - Add Questions , Track time , Create Leader board , Generate Team wise report etc.

- **Language Model Analysis**: Viphoneme, T-SNE, KNN, Scikit Learn
  Created Language Model of various languages using their phonetics and compared them using T-SNE and Clustered using KNN.

- **Tweet Sentiment Analysis (In progress)**: NLTK, Scikit, Tensorflow
  Comparing different algorithms for sentiment prediction. Started with Naïve Bayes and SVM, currently working on a model based on GloVe and LSTM, after that, planned to test a BERT model.

ACHIEVEMENT

- **Semifinalist at DeepRacer Student League 2022**: Amazon Web Services
  Use a PPO based reinforcement learning model. 02:14.991 at DBro Raceway and 00:20.266 on re:Invent 2018 Track.

- **Speaker at Mathematics Workshop**: IIT Madras   YouTube
  Gave a talk on the topic - "How Mathematics can break whole cryptography and make you a millionaire"

- **LT TS Scholarship**: IIT Madras
  Reimbursement of complete tuition fees based on my Academic record at IIT Madras

POSITION OF RESPONSIBILITY

- **Upper House Council** — IITM POD
  Secretary Namdapaha — Sep 2022 - Present

- **Literature Committee IIIT Vadodara** — IIITV
  Secretary Editorial Club / Editor in Chief Harbinger — Sep 2022 - Present

- **Cosmos IITM** — IITM POD
  Head of Development — Feb 2022 - Present

- **Google Developer Students Club IIIT Vadodara** — IIITV
  Android Co - Lead — August 2022 - Present

COURSES AND CERTIFICATES

- **Fundamentals of Deep Learning by NVIDIA Deep Learning Institute**: Certificate Link

- **Diploma in Multilanguage Computer Programming by C-DAC** : Certificate Link