Dikshita Pillai

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EXPERIENCE

IDC IIT Bombay, Mumbai— *Interaction Design Intern*

MAY 2023 - JULY 2023

· Investigated and compiled data from **diverse touch interface patterns** and finger arrangements.Used **statistical analysis** to reveal practice effects on user performance

· Worked on the extraction of insights through comprehensive **data analysis** in the "**Exploring Enhanced Finger Precision on Touch Interfaces.**"

PROJECTS

Parkinson's with a voice

· Developed a robust Parkinson's disease classification model using an **XGBoost classifier**, achieving a **Matthews Correlation Coefficient** of 0.814 and a **Cohen's Kappa score** of 0.81 leveraging audio data for diagnosis.

· Addressed **data imbalance** challenges, enhanced model reliability, and **deployed the project** to aid in early Parkinson's detection

· **Language:** Python **Framework:** Scikit Learn, Flask.

Mumbai Price Projections

·Developed a highly accurate house price predictor by analyzing Mumbai's housing market data using **CatBoost Regressor** (0.999 R–squared score)
· Conducted **geospatial analysis** for locality–specific insights, uncovering nuanced variations in property prices across localities. This analysis can **empower strategic pricing** and investment decisions

· **Language:** Python **Framework:** Scikit Learn

Adore

· Streamlined Pet Adoption experience by creating a **user-centric website flow**, optimizing the journey from exploration to becoming a responsible pet parent

· Created a **Comprehensive Pet Support Ecosystem**, which empowered the users to make informed decisions during emergencies, enhancing pet safety and welfare.

Vera

· Designed **a distinctive gallery experience** that streamlined ticketing, enriched visits with audio tours, and introduced **art scanning** for interactive exploration

EDUCATION

Indian Institute of Technology (ISM), Dhanbad — *Bachelor of Technology in Electrical Engineering*

JULY 2020 - JUNE 2024   **CGPA – 7.12**

Narayana Junior College, Mumbai

12th - APRIL 2018 - APRIL 2020 - **91.00%**
10th - APRIL 2014 - APRIL 2018 - **95.20%**

SKILLS

❖ **Languages:** C++/C, Data Structures and Algorithms
❖ **Data Analytics:** Python, SQL, Excel, Tableau
❖ **Libraries:** Numpy, Sklearn, Tensorflow, Keras
❖ **Tools:** HTML, CSS, Bootstrap, JavaScript, Colab
❖ **Design Tools:** Figma, AdobeXD, Miro

ACHIEVEMENTS

❖ Eligible for award scholarship of higher education under **Innovation in Science Pursuit for Inspired Research(INSPIRE)** by virtue of performance within the **top 1%** of the school board at class XII level
❖ Successfully led a **blood donation camp drive**, collecting over 324 units of blood to support the community.

POSITIONS OF RESPONSIBILITY

❖ **Mentoring JEE aspirants** on Exprto for optimal academic growth, providing personalized guidance and support
❖ Content head of **Fast Forward India**, an officially registered NGO
❖ **Content head** of Legends in the Making, the official stage dance club of IIT Dhanbad

EXTRACURRICULARS

❖ Proficient in **Mohiniyattam**, a classical dance form of Kerala
❖ Avid book reader and **swimmer**, skincare enthusiast

CERTIFICATIONS

❖ Human-Computer Interaction, Georgia Tech
❖ Data Analytics, CSO502, IIT (ISM) Dhanbad
❖ Google Data Analytics Professional Certificate
❖ Google UX Design Professional Certificate
❖ Python for Machine Learning and Data Science, Udemy