ANIKET ASHOK KATAKDHOND (ME19B005) | INDIAN INSTITUTE OF TECHNOLOGY MADRAS

EDUCATIONAL AND SCHOLASTIC ACHIEVEMENTS

PROGRAM	INSTITUTION	CGPA/%	YEAR OF COMPLETION
B. Tech - Mechanical Engineering	Indian Institute of Technology Madras	7.72/10	2023*
XII (HSC)	Ratanbai Walbai Junior College, Maharashtra	88.9 %	2019
X (ICSE)	Smt. Sulochanadevi Singhania School, Thane	97.2 %	2017

● Secured a position in top 2.1 percentile in JEE Mains.   *- ongoing*
● Among the top 1 percentile in Class XII Maharashtra State Board.

EXPERIENCE

App Developer Intern at QkRes
[Feb - April 2021]

● Lead the team, along with other 3 interns in building App in **Flutter** framework.
● Worked on building an app which would aid in **Contactless** seat reservation in mess, Libraries, Institute Hospital, etc.
● Ideated on **Usage of Barcode** generated system for achieving above goal.

Full-Stack Developer Intern at Jivass Tech
[May - June 2021]

● Worked on **ReactJS** for frontend and **Django** for backend, using PostgreSQL as database.
● Created **Mall Metering Website,** with basic features, like authentication system, Dummy Data, Primary Dashboard for Customers, Supervisors and Superadmin.
● Created Website till **alpha** phase, as per client's demands.

PROJECTS

Stock market Analysis

● Used Kaggle dataset to determine stock behavior based on the news headline.
● Implemented **CountVectorizer** to convert sentences to vectors and create bag of words.
● **RandomForestClassifier** for classification purposes.
● Successfully built a model with **86.24 %** accuracy score.

Emotion Detection

● Used **Keras Sequential model** along with layers like **Conv2D, Maxpooling2D, Flatten, Dropout and Dense** to build the Model.
● Using **Haar Cascade** to detect faces in the frames of video.
● Built using a Kaggle data set containing **7 emotions**: happy, sad, fear, disgust, angry, surprise and neutral with an **accuracy of 59.2%.**

Car Price Prediction

● Used Dataset from **CarDekho** available on Kaggle.
● Used **RandomForestRegressor** algorithm for building models.
● Model scores were, **accuracy: 0.96, precession score: 0.95, recall score: 0.93 and F1 score: 0.94**
● Implemented the final model on Heroku, using Flask for backend.

Similar Image Grouping

● The objective is to find and display **top N similar images** to the given input image from the dataset, having animal faces.
● Implemented **Convolutional Encoders** on image dataset, for efficiency and flexibility purposes, the compressed representation takes 8 times less space than images.
● Used **K Means** for clustering a **KNN** for assigning new data points to the clusters formed.

COURSEWORK AND SOFTWARE TOOLS

● Principal of Economics ● Computer Vision [#] ● Functions of Several Variables	● Machine Learning by Andrew Ng [#] ● Introduction to Data Analytics [$] ● Series and Matrices	● Probability, Statistics and Stochastic Process ● Differential Equations

Software Tools	Python (TensorFlow), JavaScript, C++, MATLAB, Dart (Flutter), SQL and MS Office

 # - online courses; $ - ongoing courses

POSITIONS OF RESPONSIBILITY

CFI[1] Co-curricular Affairs Secretary, Product Design, Project member, Course Management Solution	● Worked on React Native Framework for developing Apps. ● Worked for collecting various games from online sources, and implementing them in our games list. ● Learned React Native from YouTube and made mini projects like chat activity using firebase backend.
Shaastra[2] Co-curricular Affairs, Secretary, Shaastra 2020-2021, Shows & exhibitions, Coordinator, Tech-Creation	● Ideated on games for Shaastra. ● Along with team, built various creative online games. ● Conducted and monitored online games with a highly engaging audience of 200+ footfall for 3 days.

1 – Center for Innovation; 2- Annual Technical Fest

EXTRACURRICULARS AND HOBBIES

Weightlifting	● Part of NSO[3] weightlifting for a year ● Part of Cauvery Weightlifting Team, stood 4th in 69+ weight category
Volunteering/Hobbies	● Other than this, I love painting, freehand drawing and still life. ● Volunteered as a writer for disabled students' class 10 board exams.

3 – National Sports Organization