

# Manasi Gurunath Khandekar

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## EDUCATION

<b>Columbia University, New York, NY</b>	Dec 2023
MS Electrical Engineering, Specialization in Data Driven Analysis and Computation	GPA 3.34
<ul style="list-style-type: none"><li>Neural Networks and Deep Learning, Big Data Analytics, Algorithms for Data Science, Statistical Learning, Math for Deep Learning, Applied Machine Learning, Large Scale Stream Processing, Introduction to Databases</li></ul>	
<b>Cummins College, Pune, MH</b>	Jun 2021
BTech Electronics and Telecommunications Engineering	GPA 3.7
<ul style="list-style-type: none"><li>Probability and Statistics, Digital Image Processing, Data Structures, Object Oriented Programming, Digital Signal Processing</li></ul>	

## TECHNICAL SKILLS

- Programming Language** : Python, PySpark, Javascript, Java, R, C, HTML, CSS
- Database** : MySQL, MongoDB
- Framework**: Tensorflow, Keras, Numpy, Pandas, Matplotlib, Scikit-Learn, Google Cloud Platform, Hadoop, Spark, Django, ReactJs, REST framework, Tableau, D3, Airflow, Figma, Git, Github, JIRA

## EXPERIENCE

<b>Columbia University, New York</b>	Jan 2023 - present
Teaching Assistant for Data Visualization Course	
<ul style="list-style-type: none"><li>Provide classroom support during lectures, grade assignments and project work, and hold weekly office hours for lecture review.</li></ul>	
<b>Deutsche Bank, Pune, MH</b>	Jul 2021 - Jul 2022
Technology Analyst	
<ul style="list-style-type: none"><li>Implemented user interface of Bank Guarantees app using React, Javascript and CSS.</li><li>Provided a uniform and seamless experience to customers using different applications on same portal, resulting in 30 % increase in client onboarding to digital platform within 6 months of application launch.</li><li>Volunteered to be a part of a cross divisional team above primary responsibilities.</li><li>Collaborated to train an unsupervised learning system to help eliminate fat finger errors ensuring more than 90% precise data entry and reducing reputational, regulatory and financial impact.</li><li>Implemented an algorithm leveraging python and tensorflow to come up with an innovative solution for anomaly detection.</li><li>Created a prototype with a simple user interface and a backend to demonstrate results of 3 different algorithms tested.</li><li>Pitched project to 4 different teams within bank having similar use case.</li></ul>	

## PROJECTS

<b>Big Data Analytics Coursework Project, New York</b>	Oct 2022 – Dec 2022
Customer Retention Analysis for Music Streaming Services	
<ul style="list-style-type: none"><li>Leveraged big data technologies like PySpark and ML libraries like Spark MLlib to model the factors affecting customer churn decisions using google cloud platform.</li><li>Created a dashboard in tableau and a prediction application using flask and streamlit to deploy the best model.</li></ul>	
<b>Exploratory Data Analysis Project, New York</b>	Sept 2022 – Oct 2022
<ul style="list-style-type: none"><li>Exploratory Data Analysis was conducted on used car dataset from kaggle using python, matplotlib and seaborn.</li></ul>	
<b>Capstone Project, Pune, MH</b>	May 2021
Deepfake Detection using Neural Networks	
<ul style="list-style-type: none"><li>Synthesized a dataset of 40 videos featuring people of Indian descent.</li><li>Researched and analysed 3 different pre-trained models and compared results to choose best model.</li><li>Trained and finetuned available pre-trained models leveraging Python and Google Colab with close to 99% accuracy.</li><li>Developed a simple GUI in Python to demonstrate the project as a whole system.</li></ul>	
<b>Artificial Intelligence and Computer Vision Society, Pune, MH</b>	Aug 2019 - Jun 2020
Website and Content Head	
<ul style="list-style-type: none"><li>Learnt the Django framework to build the AICVS website and also leveraged HTML, CSS Javascript for the same.</li><li>Delegated work to team members to maintain the website up-to-date with latest event updates and blogs about different sessions during the year, resulting in 15% increased participation from students in the various sessions organized.</li></ul>	