Kamal Yeshodhar Shastry Gattu

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EDUCATION

Master of Science in Computer Science *Anticipated Dec 2023*
University of Massachusetts Lowell, Lowell, MA; GPA: **3.74/4**

Bachelor of Technology in Computer Science & Engineering *Nov 2020*
Jawaharlal Nehru Technological University Hyderabad, Hyderabad, India; GPA: **6.73/10**

EXPERIENCE

Facilities Information Systems Student Assistant & Intern, UMass Lowell *Jan 2023 - Present*

- Restructured a Python system to integrate and automate data imports and exports Cost Management in the Facilities Planning Department
- Expanded Python tools, incorporating the new REST-based e-Builder API for Facilities Management.
- Build Machine Learning-powered tools for task automation, potentially reducing manual time by 90%.

Programmer Analyst Trainee, Cognizant Technology Solutions India Pvt *Ltd* *Dec 2020 - Nov 2021*

- Collaborated on improving and maintaining a Data Warehousing System for a Customer Relationship Management System for a client in the Automotive Industry with over 5 million customers.
- Created mappings and workflows to conduct ETL operations using Informatica PowerCenter and Redshift Database.
- Prepared detailed and thorough system documentation encompassing all aspects of the project.

TECHNICAL SKILLS

Programming Languages:	Python, Java
Machine Learning Libraries:	NumPy, Pandas, Scikit-learn, Keras-TensorFlow, PyTorch, OpenCV, Matplotlib, NLTK
Database:	MySQL, Oracle, PostgreSQL, Amazon Redshift
ETL Tools:	Informatica PowerCenter
Web Designing:	HTML, CSS, JavaScript
Others:	REST API, Microsoft PowerApps, Microsoft Office, Git

PROJECTS

Chest X-Ray Classification to Detect COVID-19 Using Deep Neural Networks *Feb 2023 – May 2023*

- Developed an advanced deep learning model for precise classification of chest X-rays, focusing on detecting COVID-19 cases to create an efficient diagnostic tool with an accuracy of 92% based on 42000 lung X-ray images.
- Implemented GRADCAM technique to identify disease-affected regions within the lung X-rays, enhancing the interpretability of the model and assisting medical professionals in diagnosis.

Climate Change Sentiment Analysis *Jan 2022 – Apr 2022*

- Conducted sentiment analysis on Twitter data with more than 43000 tweets to gauge public sentiment towards climate change leveraging natural language processing techniques to analyze and classify sentiment.
- Utilized various machine learning and deep learning models to interpret public opinions with an accuracy of 96%.

Citizens Income Prediction - Comparison of Machine Learning Models *Feb 2022 – Apr 2022*

- Trained predictive models for income levels of citizens on UCI Adult Income Dataset with 48000 data samples, analyzing the effectiveness of standard machine learning algorithms.

Face Mask Detection *Oct 2020 – Nov 2020*

- Engineered a sophisticated system with 90% accuracy for the precise identification of mask-wearing individuals within images and videos, harnessing the power of Deep Neural Networks and image recognition techniques.

Recolored Images Detection Using Deep Discriminative Model *Jan 2020 – April 2020*

- As the primary developer, implemented the IEEE paper of the same name which involved curating and pre-processing large datasets, fine-tuning model hyperparameters, and optimizing the network architecture using Python and TensorFlow.

Aadhaar-Based Online Voting System *June 2019 – Nov 2019*

- Crafted a remote voting channel to boost voter engagement and cut election expenses by allowing voters to vote online. This system has proven effective in handling student body elections with over 2000 students casting votes with ease.