Ritvik R Palvankar

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OBJECTIVE

Seeking Entry-level opportunities in Data Science, Machine Learning and Image Processing starting May 2021

EDUCATION

University of Florida, Herbert Wertheim School of engineering — **Florida, FL**
Masters of Science (MS) in ECE | **Concentration:** Data Science and ML| GPA: 3.06 — March 2021

University of Mumbai — **Mumbai, India**
Bachelors of Engineering (BE) in Electronics engineering| **Concentration:** Electronics| GPA: 3.7 — May 2018

RELEVANT COURSEWORK

Fundamentals of Machine Learning | Neural Networks and Deep Learning | Image Processing and Computer Vision | Independent Research on Continual Learning in Neural Networks | Digital Signal Processing

TECHNICAL SKILLS

Programming languages:	**Python**, SQL, MYSQL MATLAB, **Django**, **Flask** (Web-frameworks).
Software &	PyCharm, Jupyter Notebook, Spark, Proteus, Arduino IDE,
Operating Systems:	Microsoft Office, Tableau, **Git**, Windows, Linux
Machine Learning Libraries:	**TensorFlow**, **PyTorch**, Scikit-learn, **Keras**, NumPy, **Pandas**, Matplotlib, seaborn, Beautiful Soup, plotly, **OpenCV**, BeautifulSoup
Certifications:	Machine Learning and Data Science with Python, **Pyspark** for Big data analysis, **AWS Machine Learning**, Python for Computer Vision, Data Structures and algorithms.

EXPERIENCE

ShopTaki — **New York, NY**
Data Science Intern — *July 2021 - Present*

- Developed and managed features of a smart-chain platform used in a hyperconnected network. Built Machine Learning models in Python using Agile development methodology.
- Responsible for developing a **CNN** model for speech recognition of the customer's input and translating it to different languages with an accuracy of 96%.

Tata Communications — **Maharashtra, India**
Data Analyst — *Dec 2018 – May 2019*

- Developed ML models to analyze customer buying patterns and predicted the results to strengthen the sales outcome.
- Constructed a real-time Tableau Dashboard with KPIs and formulated it to present insights of the organization using the same approach used in Churn prediction.

PROJECTS

Zomato restaurant rating (Python, Linear Regression, Random Forest, Flask) — Mar 2021 – Apr 2021

- Performed EDA on restaurant's datasets using **Pandas** and different Machine Learning models to predict their respective ratings. Used Linear, Random and Extra tree regressor and the best model was chosen and deployed using **Flask**.

Continual Learning (Python, TensorFlow, Keras, Matplotlib) — Sep 2020 – Oct 2020

- Designed a twin convolutional neural network to avoid catastrophic forgetting in Neural networks using the concept of one-shot learning. Achieved an accuracy of 94% on every first iteration.

Bicycle Sharing system (Pandas, seaborn, NumPy) — Jul 2020 – Aug 2020

- Designed **Maximum Posterior** and **Maximum Likelihood** estimators to predict the number of rides sharing bikes used in a 1-hour period. Used **R-squared** and **Q-Q plot** as a metric for evaluation of the estimators.

Detecting Breast Cancer (Python, Pandas, Matplotlib, Seaborn, Scikit Learn) — Feb 2021 – Mar 2021

- Collaborated with a team of five to perform Exploratory Data Analysis on Breast Cancer data obtained by Routine Blood Analysis and built a **XGBoost** predictive model achieving an accuracy of 97% on test set.

Real Time Forex API (Python, Django REST Framework, BeautifulSoup) — Jul 2021 – Aug 2021

- Created a Real time API by crawling the forex data and used BeautifulSoup for scraping and **Django** Framework for deployment. Used **Celery** for background task processing and passing the crawlers to be executed in background for keeping the server ready to respond to new requests.

UF network (Python, Sci-kit learn, NumPy) — Oct 2020 – Nov 2020

- Created a MLP classifier to work on a numpy image for creating a decision boundary and made a comparative analysis of the learning curves and the loss functions. Best parameters found (**Accuracy=99.33%, learning=0.09**).