

# Dhaval Thakkar

Data Scientist

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## WORK EXPERIENCE

### UNIFYND TECHNOLOGIES PVT. LTD. | DATA SCIENTIST

Mumbai, MH, India | June 2018 – Present

- Led the development of a **Templatized OCR Engine with GUI** to onboard **2000+ retailers** from different malls. The microservice deployed is currently operating at an **accuracy of 81%**
- Built a **Customer Segmentation model** to target customers with relevant coupons, rewards, and content resulting in a **3x increase** in revenue and **2x increase** in coupon utilization
- Built a **Dynamic Coupon Pricing Engine** for malls that led to a **5x increase** in coupon consumption on the coupon marketplace
- Built a **Pricing Engine and Customer Segmentation Model** for a logistics company which saw a **32% reduction** in Customer Attrition and a **12% increase** in Repeat Purchase Rate
- Developed an **Automated End to End Reporting system** to track KPIs performance for 10 malls that saves **60 hours** of manual labour each month

### UNIFYND TECHNOLOGIES PVT. LTD. | INTERN DATA SCIENTIST

Mumbai, MH, India | Sept 2017 - June 2018

- Built a Smart Cryptocurrency trading platform which used social data and historical prices to optimize current portfolio. Boosted overall profit from the portfolio by **30%**
- Worked with Product and Marketing teams to identify the power users of an app which resulted in **43% increase** in activity and a **65% increase** in revenue from these users

### ZIFF, INC | DEEP LEARNING INTERN

Provo, UT, USA | May 2017 – Aug 2017

- Demonstrated competency in Hyperparameter Optimization, Image Augmentation and Learning Rate decay strategies using the Keras Library
- Deployed a Multi-Class Image classifier microservice written on Flask as a container on AWS EC2 using Docker

## EDUCATION

### Bachelor of Engineering, Computer Engineering

Mumbai, MH, India | June 2014 - May 2018

K J SOMAIYA INSTITUTE OF ENGINEERING AND IT  
CGPA 7.51/10

**Coursework:** Machine Learning, Data Analytics, Big Data Analytics, Data Structures and Algorithms, Operating Systems, Computer Security, Software Testing, Advanced Networking, Big Data Analytics

## PROJECTS

### AUTOMATED DETECTION OF FUNGAL ELEMENTS OF TINEA USING DEEP LEARNING

Patent Application ID - 201821028623

*Search the patent number under Application Status*

Devised a system that can assist doctors diagnosing skin infection caused by Tinea (fungal infection) reduced diagnosing time effectively from 15-20 minutes to 3-5 seconds. Created a web application based on HTML, CSS and Flask for interfacing the system.

### DEEP LEARNING DOCKER IMAGE

DOCKER, PYTHON, ANACONDA, MACHINE LEARNING

Created a Deep Learning/Machine Learning docker image to easily setup all the tools required for Data science in one single container. Support for GPU/CPU images for inferencing

## SKILLS

**Languages:** Python, R

**Libraries and Packages:** Pandas, NumPy, HuggingFace, Sklearn, Scrapy, Flask, Plotly, Streamlit

**Databases:** SQL, MySQL, MongoDB

**Technology:** Git, AWS, GCP, Docker

**Machine Learning:** Linear and Logistic Regression, SVM, K-means, KNN, Random Forests, Decision Trees

**Deep Learning:** Artificial Neural Networks, CNNs, RNNs, Transformers