GAURAV **MUDBHATKAL**
MANAGEMENT ENGINEERING AT THE UNIVERSITY OF WATERLOO

gmudbhat@uwaterloo.ca ● gaurav613.github.io
📞 (+1)5197292861 // (+974)55967268
in linkedin.com/in/gmudbhat ○ gaurav613

WORK EXPERIENCE

Data Engineering Intern · KPMG - Lighthouse Exponential   July 2020 to Aug. 2020 · Remote
- Delivered to 10 clients affected by COVID-19, as part of the Canada Emergency Wage Subsidy(CEWS) program
- Calculated upwards of $2,000,000 in subsidies by wrangling client payroll data using workflows in **Alteryx**

Enterprise Co-op Student · Conrad School of Entrepreneurship and Technology   May 2020 to June 2020 · Remote
- Conducted problem analysis and market research on storage & analysis of digital evidence data in Law Enforcement Technology
- Presented research for a chance to win $15,000 in funding through the Quantum Valley Institute's Problem Pitch Competition

Data Scientist, AML Insights · RBC - Royal Bank of Canada   Sept. 2019 to Dec. 2019 · Toronto, Canada
- Built an in-house capability to gain insights from Suspicious Transaction Reports with Natural Language Processing
- Generated **Doc2Vec** embeddings for ~10,000 documents after preprocessing and tokenizing text using **NLTK**
- Attained 96% accuracy and 82% precision by designing a neural network-based multi-label text classifier with **Keras**
- Facilitated the ability to search for reports based on document similarity using **gensim** and Named-Entity Recognition with **spaCy**
- Analyzed client behavior by implementing clustering techniques such as **KMeans** and **HDBSCAN** on client data
- Automated python package deployment to the **jFrog Artifactory** by integrating with **GitHub** and **Jenkins**

Data Analytics Co-op · BBM - BlackBerry Messenger   Jan. 2019 to Apr. 2019 · Mississauga, Canada
- Simplified data processing by scripting with **Scala** in an Apache **Spark** environment and warehousing with **BigQuery**
- Optimized the ETL(Extract, Transform, Load) pipeline by scheduling jobs in Apache **Airflow**
- Investigated sudden spikes in data using **Tableau** and Apache **Zeppelin**
- Enhanced CI/CD of the data pipeline by providing access to **Jenkins** scripts via version control
- Configured dependencies in **Maven** to generate detailed documentation of the codebase

Junior Developer · Perpetuuiti   May 2018 to Aug. 2018 · Pune, India
- Developed a CLI-based Object Detection application using the Deep Neural Networks module in **OpenCV**
- Gained valuable knowledge in Machine Learning concepts through online courses and material provided by the mentor

PROJECTS & EXTRACURRICULARS

Infrastructure Core Member - Watonomous   May 2019 to Aug. 2019
- Engineering Student Design Team representing the University of Waterloo in the SAE AutoDrive Challenge(TM)
- Assisted in containerization of the team's development environment using **Docker**

Object Detection Application
- Performed object detection on images with a 92.3% accurate Caffe model which was pre-trained on the CIFAR-10 dataset
- Integrated models with Streamlit to develop a functioning web application

E-Commerce Web Application (MERN Stack)
- Implemented the backend for an e-commerce web app with **Node.js** and **Express.js**, managed data with **MongoDB**
- Designed the front-end with **React.js**, along with **PayPal** for checkout

Stock Prediction Model
- Predicted stock prices based on historical data using the concept of **LSTM**(Long Short-Term Memory) with **Keras**

SKILLS

Programming Languages: Python, Java, Scala, HTML/CSS, PHP, R, C++, JavaScript
Data & ML: SQL, pandas/NumPy/matplotlib, Keras/TensorFlow, Apache Spark/Airflow, NLTK/gensim/spaCy, Anaconda, MongoDB
Technologies & Frameworks: Git, Linux, Jenkins, Docker, jFrog, Google Cloud/AWS, Leaflet.js, Express.js, React.js, Node.js
Project Management: Scrum, Problem Analysis/Solving, JIRA, Confluence, Notion, Communication/Reaching Out

EDUCATION

University of Waterloo
BASc Honors Management Engineering 2022

deeplearning.ai (Offered by Coursera)
Tensorflow Developer Specialization 2020