RICHA KHAGWAL
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EDUCATION

Masters in Computer Science *Aug 2018 - May 2020*
California State University East Bay | Hayward, CA GPA-3.56

Bachelor of Technology (BS), Computer Science and Engineering *Sep 2010 - June 2014*
Rajasthan Technical University | Jaipur, India GPA- 3.30

Relevant Coursework: Machine Learning, Computer Vision, Advanced Artificial Intelligence, Cloud Computing, Mathematics, Statistical Analysis, Data Analytics, Data Mining, Statistics, Data Structures, Software Engineering.

TECHNICAL SKILLS

Programming skills:	Python, R, Java, JavaScript, C++, Node.js, React
Open Source libraries:	Pandas, NumPy, scikit-learn, Seaborn, TensorFlow, Keras, Matplotlib, NLTK, Spacy, Plotly, PyTorch
Machine Learning:	Classification, Regression, Clustering, Supervised Learning, Deep Learning, Natural Language Processing, knn, Random Forest, Gradient Boosting, XGBoost, LightGBM, AutoML
Statistics:	Regression analysis, Confidence intervals, Bayesian, and Monte Carlo Methods (i.e., MCMC)
Database:	NoSQL-MongoDB, Cassandra, Kafka, Oracle, Postgres, MySQL, Data warehouse
Platforms/ Reporting tool:	Jupyter Notebook, Google Colab, PyCharm, Tableau, Power BI, Rest Api, Docker, Jenkins
Frameworks /API:	AWS EC2, Heroku, GCP, Microsoft Azure ML, SAS, Hadoop, Big Data, PIG, Hive, Spark
Soft Skills:	Analytical skills, Data driven, innovative, communication skills, quick learner, problem-solving skills

TECHNICAL EXPERIENCE

The Wine Group Tracy, CA
Data Scientist Intern: *Jun 2019 - Aug 2019*

- Collaborated with Supply-chain team, to extract meaningful insights from large chunks of data, coming from sales, inventory, warehouse, daily shipments, and productions schedules etc.
- Predicted wine sales in monthly and weekly buckets using time series forecasting models such as- Prophet, ARIMA, LSTM, Neural Networks, and cross-verified results with statistical measures likewise- MAPE, R2 score metrics.
- Designed and deployed a web application, to generate and visualize the results from the predictive models, via Flask and AWS.
- Conceptualized and developed a Slack chatbot, powered with machine learning for internal and B2B communication with additional capabilities - report generation, data analytics, predictive analytics, schedule recommendations and order placement.

ACADEMIC PROJECTS:

SIIM-ISIC Melanoma Classification (Ongoing Kaggle Competition) *Jun 2020-Now*

- Working upon building Deep learning neural network, to detect skin cancer, by identifying melanoma in lesion images.

Coronavirus Spread Across Globe: (https://github.com/rickhagwal/Coronavirus-Spread-Across-Globe) *May 2020 - Jun 2020*

- Performed Data Scraping from raw data collected, analyzed, cleaned, and interpreted via variant web sources likewise- Twitter, News websites (CNN, NBC, CNBC) and John Hopkins university dataset, and did data storytelling on Tableau platform.

Finding Donors for CharityML: (https://github.com/rickhagwal/Finding-Donors-for-CharityML) *Apr 2020- May 2020*

- Secured rank amongst top 18% worldwide, by performing hyperparameter tuning on ensembled gradient boosting model, to help CharityML in identifying people most likely to donate to their cause and got ROC-AUC metrics accuracy of 93.25%.
- Applied Data Cleaning and Exploratory Data Analysis (EDA), to deal with missing, categorical, and skewed columns.

Indoor Navigation for Visually Impaired people: (https://github.com/rickhagwal/Indoor-Navigation) *Sep 2019- Dec 2019*

- Trained and deployed an LSTM deep learning neural network on the Google Cloud (GCP), by using raw dataset of 1000 videos (collected manually), to classify doors and stairs in indoor navigation, with just 0.01% loss (i.e., accuracy of 99.98%).
- Successfully performed live video predictions, via features extracted from MobileNetv2, and displayed results on Tensorboard.

ML chatbots for smart home automation System: (https://github.com/rickhagwal/IOT-Academic-Project) *Feb 2019- Mar 2019*

- Integrated ML based chatbots, using Facebook chatbots with IOT based home automation system via sensors such as- ESP32, Relay Module, Heltec LORA, using Chatfuel API as a conversational interface between, and deployed it on AWS EC2 platform.

HONORS & CERTIFICATIONS:

- Issued Introduction to Data Science with Text Mining in Python by University of Michigan on Coursera. *Mar 2020*