ASHWIN BALASUBRAMANIAM

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TECHNICAL SKILLS

Languages/Software: Python, R, C++, SAS, JavaScript
Cloud: Azure, GCP, Amazon Web Services, Ansible, Terraform
Library/Frameworks: TensorFlow, Pytorch, Flask, React, Scikit-Learn, Pandas, Numpy, Keras
Databases and Tools: Teradata, MySQL, MongoDB, Hadoop, Hive, Spark, BigQuery, PostgreSQL, Kafka
Visualization: Tableau, Power BI, Dash, Shiny
Analytical skills: Machine Learning, Data Science and visualization, ML-Ops

EDUCATION

Master of Science in Analytics, Institute for Advanced Analytics ***Aug 2019 - May 2021***
North Carolina State University, *Raleigh, NC, USA*
Bachelor of Technology in Mechanical Engineering ***Aug 2015 - May 2019***
SRM Institute of Science and Technology, *Kancheepuram, India*

Certifications: TensorFlow Developer, AWS Certified Cloud Practitioner, Azure Fundamentals, SAS: Business Analyst, SAS 9.4: Base Programming, Tableau Desktop Specialist
Publications: *'Detecting Problem Statements in Peer Assessments'* EDM 2020, May 2020

WORK EXPERIENCE

ERNST & YOUNG | *Data Scientist* ***Jul 2021 – Present***

- For a Fortune 500 banking client, implemented Machine Learning and Deep Learning models to identify customer complaints and primary complaint themes.
- Spearheaded the development of an Internal Web Application using React-Flask stack to automate the Statement of Work document review process by implementing NLP and ML and hosted it on Azure cloud using microservices
- Designed Database schema and implemented SQL queries to deliver meaningful reports for data driven strategies
- For a Top 3 Bank, helped architecture business process models and strategize ideas to generalize the processes across the different global regions
- Led multiple workshops and presentations for executives to identify areas of improvement and implement solutions

MICROSOFT | *Tech Lead – Practicum* ***Sep 2020 – April 2021***

- Identified factors and patterns to effectively target Azure cloud customers throughout their journey to provide actionable insights to the Azure Customer Growth Analytics team and senior leadership
- Analyzed over 800 million rows of customer data using techniques such as multi-level logistic regression, sequence analysis, and survival analysis
- Developed scalable distributed data solutions using Dask and administered PostgreSQL database
- Implemented the Scrum Framework to plan and organize project tasks and quickly deliver value

NORTH CAROLINA STATE UNIVERSITY | *Research Intern* ***Dec 2019 - May 2020***

- Implemented several novel neural network approaches (CNN, RNN, HAN, BERT) and traditional NLP Methods to detect suggestions in Peer Assessments from NC State Expertiza platform and achieved 93.1 % F1
- Worked on co-learning and semi-supervised learning models to generate synthetic labels and conducted literature reviews in the field of 'Natural Language Processing' and 'Transfer Learning'

PROJECTS

Natality care Prediction

- Designed a scalable birth weight prediction model to identify babies in need of special care by using a wide-and-deep learning model and served it by deploying it on Google App Engine via REST API
- Used Apache Beam data pipelines on Cloud Dataflow to load, feature engineer and transform 140 million rows

Diamond App - *diamond-predictor.herokuapp.com*

- Developed a Responsive Web Application that predicts diamonds prices using ML models and hosted it on Heroku
- Collected 130 thousand diamond features by scraping and achieved 94 % R-squared by comprehensive modeling