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Summary

- ➔ A Machine Learning enthusiast with a Master's degree from Georgia Tech in Computer Science with a specialization in ML who is passionate about cutting-edge technology and solving real-world problems using innovative solutions.
- ➔ Data Scientist with over 8 years of experience in working on assignments focused on Data Processing, Data Analytics, Data Visualization, and Data Mining solutions for various projects.
- ➔ Experience with Regression and Classification Models, Recommendation Systems, Forecasting Models, Natural Language Processing algorithms

Experience

Graduate Student

Georgia Institute of Technology

Aug 2019 - Aug 2021 (2 years 1 month)

Projects:

Image Captioning using FastAI:

- ★ Implemented a Neural Image Caption Generation with Visual Attention using FastAI.
- ★ Conceptualized and led the team to modify the existing architecture by incorporating transformers, newer pre-trained embeddings, newer CNN architectures etc.
- ★ Implemented Beam search during training phase rather than the normal Evaluation/Caption generation phase in-order to improve the performance of the model.

Skills learned:

Pytorch, FastAI, CNN, LSTM/Transformer, BERT/Fasttext Embedding, Beam search, Deep Learning
Real Estate Investment Guide:

- ★ Conceptualized and built a web app which presented data in an investor centric way rather than the usual homeowner centric approach for most of the existing apps like Zillow.
- ★ Build a cloud-based platform "Redia" which helps in identifying properties ideal for investment to achieve maximum gain for their chosen strategy.
- ★ Developed and deployed ML models for rental price prediction and hosted the same in AWS.

Skills learned:

AWS EC2, PostgreSQL, sklearn, keras, Swagger, Flask, javascript, JQuery, Python, Docker

Mortality Prediction:

- ★ Developed an ML model to predict in-hospital mortality in the early stage of ICU stay using a 6-hour timeframe window for the first 3 timeframe windows which are very critical.
- ★ Performed Feature Engineering using Spark and AWS Glue on Amazon Athena after extracting the data from MIMIC-III database
- ★ ML models were implemented in phases on Amazon SageMaker where in Phase 1 a binary classifier model was developed in-order to predict mortality and In Phase 2, a multi-class classifier has been trained to predict the death hours since ICU admission for those predicted dead patients in Phase 1.

Skills learned:

Python, PySpark, AWS Glue, AWS Athena, AWS Amazon Sagemaker



Data Scientist

Capital Group

Mar 2014 - Aug 2019 (5 years 6 months)

Responsibilities:

- ➔ Was instrumental in implementing Guided Selling which took the customer segmentation to the next level and improved overall sales by roughly 10%. Advisor/Dealer intelligence, advisor digital activity and social media footprints were used by the ML model in-order to generate sales recommendations which were delivered to the sales team through an innovative mobile point-of-sale experience, which could be easily accessed from the road prior to each client meeting.
- ➔ Worked with the Data Warehouse team by bringing in historical selling, pricing and buying data into a ML model thereby improving the accuracy as well as the scale of the sales forecasting. Also worked on implementing classification algorithms on open opportunities which helped in evaluating the existing sales pipeline.
- ➔ Implement and support the large scale data integration projects between Mater Data Management and Salesforce in support of the enterprise-wide “360 Customer View” initiative.
- ➔ Support the full Software Development Life Cycle (SDLC), including development, testing, code review, code promotion and warranty support for the product in production.

Technologies: Python, Azure, Keras, Tensorflow, Pyspark, Informatica Cloud, Apache Airflow, Tableau, SQL Server 2012



Senior Data Engineer

Capital Group

Sep 2012 - Mar 2014 (1 year 7 months)

Responsibilities:

- ➔ Development of charts, reports and dashboards which was used by the leadership team in their activities like identifying benchmarks and determining incremental impacts of new initiatives, planning resources in response to expected demand, and projecting future budgets etc.
- ➔ Design and Development of the ETL jobs for the application to load data within the organization to Salesforce.com which is the cloud based CRM system being used by Capital Group users to track opportunities, events, forums, and activities.
- ➔ Developing and Maintaining integration of CRM with existing back office book of record systems that relay information through daily, nightly and monthly batch scheduling in order to fulfill requests on items such as hypothetical orders and proposals requested, Sales from BI, expense reports with SAP etc.
- ➔ Perform release management, code versioning, continuous integration and continuous deployment using Altassian tools like Bitbucket and bamboo.

Technologies: Python, Pyspark ,Apache Airflow, Informatica Cloud, SQL Server 2012, Tableau, Bit bucket, Bamboo



Data Engineer

BNP Paribas Cardif

Jan 2011 - Sep 2012 (1 year 9 months)

Project: Actuarial Profit and Lose Elaboration

Industry: Insurance

Responsibilities:

- ➔ Design and Development of an application using SAS which calculates Profit and Loss accounts for Actuaries based on the Premium and Claims data for a given accounting period
- ➔ Implemented Time series forecasting based on Trend and seasonality method to estimate Premium.

- ➔ Developed a Business Intelligence dashboard using data visualization tool Tableau in order to help Actuaries provide better assessments of Profit and Loss Estimation.
 - ➔ Implementation of a predictive algorithms in order to predict the “Incurred But Not Reported” (IBNR) Claims based on historical data which in turn will help in the estimation of Reserves.
 - ➔ Collaborate with different stakeholders to understand future tactical requirements and strategic goals and design a road-map for Analytic solutions.
- Technologies: SAS Enterprise Guide, Tableau 8



Web Application Developer

Webyana Technologies

Sep 2009 - Aug 2010 (1 year)

Responsibilities:

- ➔ Design and Development of social networking site exclusively for Golfers from the scratch.
- ➔ Development of online Handicap calculation system and online Golf Store (e-commerce portal).
- ➔ Integration of Social networking features into the website like blog, Friend request, Chat etc.
- ➔ Implemented some of the Digital marketing channels like Email Marketing, SEO, Google Ads and Social Media marketing and run some campaigns to increase the site traffic.
- ➔ Implemented web analytics using Google Analytics to track website traffic and to estimate how traffic to the website is changing after the launch of new advertising campaigns.

Technologies: Drupal, PHP, MySQL, Amazon AWS, Google Analytics



Intern

Hindustan Aeronautics Limited

Aug 2008 - Jan 2009 (6 months)

The Project was to design a starter controller for an Adour Engine in Engine and Test Bed Research & Development Centre's (ETBRDC), a division of HAL. The starter controller should be able to accurately control the fuel supply valve, air supply valve and ignition. The rotation speed (in rpm) is obtained by a special magnetic transducer and when the speed is sufficient, the air supply valve is closed and the fuel supply is made open. The fuel is then ignited. After this the engine working is self-sustained. This project uses a microcontroller (AT89C52) to control the relays which determine whether the air supply valve, fuel supply valve and ignition are on or off.

Education



Georgia Institute of Technology

Master of Science in Computer Science, Specialization in Machine learning

Aug 2019 - Aug 2021

Coursework:

- ★Deep Learning ★Reinforcement Learning ★Machine Learning ★Artificial Intelligence ★Bayesian Statistics ★Big Data for Health Informatics ★Machine Learning for Trading ★Data and Visual Analytics ★Artificial Intelligence for Robotics ★Intro to Graduate Algorithms



Infosys Leadership Institute

Business Intelligence

Aug 2010 - Jan 2011

Completed the Training program from Infosys Leadership Institute in Business Intelligence Stream. This is a training program for entry level engineering graduates at the Infosys Global Education Center,

one of the world's largest corporate universities located in Mysore. This is a 23-week residential training program designed to aid student's transition from the academic world to the corporate world, as qualified professionals. The program is focused on imparting generic and stream-specific training in various technology areas, along with soft skills and leadership programmes, to engineering graduates who join Infosys every year.



MES College of Engineering, Kuttippuram

Bachelor's Degree, Bachelor of Technology in Electronics and Communication

2005 - 2009

Licenses & Certifications



R Programming - Coursera Course Certificates

VAL2GK2DW2Z4



Cloud Data Management, Specialist Certification - Informatica



Salesforce Certified Administrator (SU18) - Salesforce

Issued Oct 2018 - Expires Dec 2020



Machine Learning Scientist with Python - DataCamp

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