Siddharth Arora

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Canada

An experienced data scientist and software developer, with expertise in developing robust, scalable data pipelines, and using machine learning techniques to extract key insights from large complex datasets.

I excel at succinctly communicating these insights to broader, non-technical audiences.

TECHNICAL SKILLS

Programming Languages	**Python** (numpy, pandas, scikit-learn, keras, tensorflow, open-cv, spacy) **R** (tidyverse, ggplot, forecast, Shiny)
Machine Learning	Classification, regression, clustering, feature engineering, hyper-parameter tuning
DataBases	PostgreSQL, MS SQL, MySQL
Statistical Methods	Hypothesis testing, confidence intervals, survival analysis, principal component analysis and dimensionality reduction, Bayesian inference
Cloud Services	AWS (EC2, S3)
DevOps	Travis CI, Docker, Docker-Compose
Workflow Tools	Agile, Jira, Confluence, BitBucket, Github, Team Foundation Server, Trello, RStudio, Visual Studio, PyCharm, Lucid Chart

EXPERIENCE

Jun 2020 – Present

Data Scientist | Intact Labs, Toronto, Canada
Intact Financial Corporation is the largest provider of property and casualty (P&C) insurance in Canada and a leading provider of specialty insurance in North America.

In a team of 7:
> Built a Machine Learning(ML) pipeline to predict auto insurance premiums to maximize pre-determined objective functions like profit, growth in units, growth in premium, etc.
> Monitored and diagnosed models in production to examine for ML drifts and took measures to ensure pre-determined desired level of performance.
> Worked closely with Actuarial Analysts and AI Developers in an Agile setting to ensure production quality software.

Python Pandas Numpy Tensor Flow Docker Github Scikit AWS

Nov 2018 – May 2020

Data Scientist | Stradigi AI, Montreal, Canada
Stradigi AI provides state of the art AI platform that empowers users to build and execute solutions to complex business challenges faster and in a secure way.

In a team of 5:
> Designed and developed data pre-processing and transformation libraries using python for data cleaning and manipulation using Python for Stradigi's AI platform.
> Built Machine Learning (ML) pipelines using classical and deep learning algorithms from data ingest through to solutions for specific use cases like sentiment analysis, document classification, name-entity recognition, image classification, object detection, and image segmentation.
> Devised and developed a benchmarking framework to analyze and optimize Stradigi's Machine Learning pipelines against competitors to achieve state of the art performance.
> Worked closely with Researchers and AI Developers in an Agile setting to ensure production quality software.

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♦ Canada

Apr 2018 Jun 2018	**Data Science Intern (UBC Capstone Project)**	Unbounce, Vancouver, Canada **Unbounce** provides an online platform that enables marketers or digital agencies to create, publish, and test landing pages, pop-ups or sticky bars to improve conversion rates.

In a team of 4:
> Developed and automated the data pipeline using python to extract and transform data into usable components for modeling.
> Applied survival analysis modeling techniques using R to determine underlying behaviors that impact customer retention at Unbounce.
> Utilized easily decipherable visualizations to report findings to a non-technical audience.

Python   Pandas   R   Survival Analysis   Trello   Github

May 2016 Dec 2016	**Data Scientist (Contract)**| Brewbound.co.nz, Auckland, New Zealand **Brewbound** is an e-commerce startup providing fast online liquor delivery service in New Zealand.

In a team of 2:
> Cleaned and wrangled data on a regular basis to generate meaningful datasets from marketing data.
> Identified trends, patterns, and relationships in marketing data to provide answers to business questions, particularly regarding the effectiveness of various advertising channels.
> Communicated findings to key decision-makers to help facilitate the decision making process.

R   Shiny   MS SQL   Trello   Team Foundation Server

Sep 2013 Feb 2016	**Software Developer**	IMS Health, Auckland, New Zealand **IMS Health** (now IQVIA) is a leading global company providing clients in the healthcare industry with comprehensive solutions to measure and improve their performance.

> Developed and updated functionalities for IMS Health's Nexxus Mobile Intelligence - a CRM solution, that helps drive customer engagement for life sciences industry using C#, JavaScript, XML.
> Performed maintenance and bug fixing on the existing code base to ensure production quality software.
> Participated in daily stand-ups and bi-weekly sprint meetings in an Agile setup and developed interpersonal skills.

C#   Oracle   XML   JavaScript   Angular.js   Agile   Jira

🎓 EDUCATION

Aug 2017 - Jun 2018	**Master of Data Science** University of British Columbia, Vancouver, Canada
Aug 2009 - Aug 2013	**Bachelor of Engineering with First Class Honors** - Software Engineering University of Waikato, New Zealand

For more projects and blog posts please visit sarora.github.io