ROBERT SMITH

Lead Data scientist

info@qwikresume.com | https://Qwikresume.com

Experienced data analyst in providing predictive modelling for multinational companies and start-ups, leveraging expertise in business strategy and operations. Project experience includes machine learning, deep learning, and big data.

MAY 2010 – JUNE 2015

LEAD DATA SCIENTIST - ABC CORPORATION

- Data Mining, Modeling, and Algorithm Development Implemented novel algorithms for modelling chemical systems and mining chemical databases using extensive application of graph theory.
- Algorithms include conformation sampling, drug design, and reaction based design through graph manipulations.
- Conceptualization and design of a hierarchical database enabling fast graph isomorphism searches for storing and retrieving chemical information.
- Software Development Experience developing object-oriented code in a team environment using software design patterns, revision control and unit-testing.
- Cross-platform software development on Linux, Windows, Mac Extensive experience in graph theory applications, relational databases and multi-threaded code.
- Predictive Modeling, and Statistical Analysis Using artificial neural networks (ANN) for correlating chemical structure to drug likeness of molecules.
- Identified novel molecules with activity against a cancer causing protein target.

2005 – 2010

DATA SCIENTIST - ABC CORPORATION

- Worked on, multiple projects to leverage statistical learning/machine learning algorithms to automate Alternate Asset Servicing.
- The automation helped NT to reduce errors and improve operational efficiency.
- Further, developed BI reports that provided predictive analytics & Reporting with dashboards on analyst performance, client activity, future workload & anomalies based on data collected from discrete applications.
- Defined Project Scope, project Charter & Business Case Prototype machine learning algorithm for POC (Proof Of Concept) Performed Data Cleaning, features scaling, features engineering, Developed predictive models for use in machine learning platform using the scikit-learn python framework Improved statistical models using learning curves, parameter curves, feature selection, and regularization.
- Performed ad-hoc data analysis for customer insights using SQL using Amazon AWS Hadoop cluster Developed MapReduce pipeline for feature extraction

Implemented Support Vector Machine (lite) Performed Principal Component Analysis (PCA) & Linear Discriminate Analysis(LDA) Fine-tuned low bias & High variance trade off Defined the technical requirements of the analytic solutions.

- Defined the data requirements of the analytic solution.
- Worked on commercial data from desperate source systems, built data models and transformed data to provide added value in IT applications by streamlining processes, reducing cost , maximizing profits & rolling out business solutions that met one of the.

EDUCATION

PhD in Computational Chemistry - 2010(Vanderbilt University)

SKILLS

Software Development, Data Analysis, Research, Matlab, C++, Python, R.