

Jordan Carson

New York, NY

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Data Scientist & Engineer

Skilled data scientist delivering innovative data pipelines, predictive tools, and machine learning models boosting stakeholder solutions.

AREAS OF EXPERTISE

- Adept at applying strategies, plans, and processes enlivening frameworks, capabilities, and tools producing needs-based client business solutions.
- Successfully designing, creating, and completing quantitative data research, analysis, mining, and application procedures bolstering feature enhancements, decision-making, and product design.
- Collaborative professional forging pivotal partnerships and relationships with cross-functional teams facilitating problem-solving, trend assessments, new opportunity identification, and integrating best practices enhancing project completion.

TECHNICAL PROFICIENCIES

Python, R, JavaScript, D3.js - [Plotly/Dash], Tableau, SQL Server, Alteryx, Git, SVN, Docker, Jenkins, AWS Stack - EC2, SageMaker, Lambda, API Gateway, RedShift, DynamoDB, S3; GCP, Apigee, GraphQL, Spark, Hadoop, Cassandra, ElasticSearch, Kibana, Apache - Superset, Kafka, Airflow, Solr.

Professional Experience

BNP Paribas, New York, NY

Data Scientist/Global Client Analytics Associate, Global Markets Americas (2017 - Present)

Lead Americas data engineer on Client Intelligence and Analytics Team – main developer on all Americas related data pipelines, infrastructure development, chatbots and dashboards. Working with teammates cross-regionally to re-develop client analytics platforms and reconfigure needs-based analytical tools and predictive engines. Created an engineering framework for building data pipelines, predictive tools and chatbots for GCA; assist team members with optimizing data products and predictive analytical toolsets. Main global peer reviewer, overseeing all workflow processes and strategies. Collaborate and train team members and cross-functional groups on analytics and self-service tools. Developed high-quality data pipelines, user permission frameworks, and REST API tools for GCA and technical teams, such as AI Lab & Quantitative Research.

Key Achievements:

- Innovated and implemented the 'Salesperson 360' sales performance dashboard and data source utilizing Python, Tableau providing vital performance and client activity information employed by over 200 individuals.
- Created a GCA support Chatbot [help desk automation] for internal stakeholders. Written in Python; integrated with JitBit, Help Desk automation software.
- Crafted and completed Tableau curriculum and practical training across 100% of all organizational departments.

BNP Paribas, New York, NY

Consultant Analytics Developer, Fixed Income IT & P&L Group (2015 - 2017)

Facilitated analytical dashboard innovations while also creating ETL workflow test, document generation, configuration handling, along system logging and monitoring tools providing stakeholder financial business solutions. Collaborated with cross-functional partners and teams creating credit and pricing assessment and predictive tools utilizing Excel and Tableau. Conducted analytical research and data collection enhancing product, tool, and features innovations and opportunities.

Key Achievements:

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- Created a cancel and amend report utilized by the Middle Office for trading across all fixed income areas, G10 Rates, PCM, and FXLM which identified daily PnL changes.

USB Securities, Stamford, CT

Software Engineer/Analyst, Group Data Services (2013 - 2015)

Invented and maintained client on-boarding information data warehouse supplying business solutions for pivotal clients integrating data and trends research and analysis. Generated pipeline report tools compiling data to craft Tableau visualizations and presentations for Senior Management bolstering strategic decision-making capabilities for new business opportunities. Configured a client cockpit dashboard employing client on-boarding and capital markets data warehouses innovating tools, resources, and solutions.

Key Achievements:

- Created data warehouse for Back Office and Client Cockpit employed by all Relationship Managers and Sales teams in Capital Markets.

Western Asset Management, Pasadena, CA

Intern, Chief Economist Office, Liability - Driven Investment (2012 - 2012)

Built funding status model utilizing EViews and R programming regressing clients' liabilities against corporate bond curves highlighting clients' funded status. Coordinated corporate bond yield curves development employing Cubic Spine Methodology integrated in liability hedging for WAMCO pension clients. Conducted data and information research and analysis on emerging markets conducting statistical methods on the macro-economy.

Key Achievements:

- Engineered large cubic spline weighted regression model, in EViews, for all Defined Benefit Pension Clients. This model increased efficiency in hedging clients' liabilities, and largely impacted future liabilities management.

Education

Johns Hopkins, Whiting School of Engineering, Baltimore, MD

Master of Science in Data Science, Projected Fall 2024

Hobart & William Smith Colleges, Geneva, NY

Bachelor of Arts in Economics, 2013

— Professional Development —

Machine Learning Nanodegree — Artificial Intelligence Nanodegree, concentration in Natural Language Processing

Deep Learning — Data Structures & Algorithms — Statistics with Python — Mathematics for Machine Learning

Mathematics — Calculus I, II, III, Linear Algebra, Differential Equations

Projects

Fraud Prediction Model

Developed a Fraud Prediction Model assisting the AML Compliance department. Configure a graph deep learning network analyzing transactional information. Implemented

Stock Market Trend Prediction

Creating machine learning processes predicting equity single-name price movements employing Generative Adversarial Networks and LSTMs. Facilitate eigen

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feature engineering techniques to make the network more robust, including embeddings.

Deployed a Sentiment Analysis Model with Udacity

Generated a complete Sentiment Analysis Workflow integrating AWS SageMaker, APT Gateway and Lambda while creating end-user web pages soliciting entered text information fueling the deployed model returning predicted sentiment.

Machine Translation - NLP

Designed a Deep Attentional Encoder-Decoder Neural Network for Machine Translation, deployed using Cloud Infrastructure in AWS customized with SageMaker Model, API Gateway, and Lambda. The pipeline accepted English Text returning French translations at a 96.7% accuracy rate for the final model.

portfolio, sentiment analysis with BERT, and fourier transform features engineering. Conduct hyperparameter tuning utilizing Deep Reinforcement Learning and Bayesian optimization.

Machine Learning Capstone with Udacity

Engineered a Deep Convolutional Neural Network for Multiclass Classification of Amazon Rain Forest images, with the final model accepting images as input data then producing lists of probabilities for each label as output. Final model accuracy score (F2) 89.18%, Log-Loss 93.7%.

Logistics Planning Search with Udacity

Created a planning search agent performing progression searches solving logistic planning issues for Air Cargo transport systems. Final model selected on number of nodes searched within the tree with a final solution of A*Search.