

Ridwan Alam

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Professional Summary

Innovative AI specialist with 3.5 years of specialized experience in advanced analytics, machine learning, and statistical modeling, plus 9 years of overall professional expertise. Proven track record delivering impactful solutions across technology, insurance, renewables, transportation, and blockchain. Skilled at leading cross-functional teams and translating complex data into strategic business outcomes. Award-winning Blockchain developer, recognized at MIT Blockchain and Las Vegas Bitcoin Hackathons for Bitcoin-based payment systems, Lightning Network integrations, and real-world asset authentication tools. AI expertise includes deep learning for autonomous vehicle perception and market-driven cryptocurrency sentiment analysis, leveraging YOLO and advanced NLP techniques to drive insights.

Blockchain Projects

Bitcoin CashuCloak Mobile App, May 2025 - June 2025

Bitcoin Lightning (LND), Python, React Native

- *Las Vegas Bitcoin Hackathon Honorable Mention*
- Developed a mobile app that utilizes steganography to conceal Cashu tokens (BTC) within images
- Enabled sending and receiving of BTC Lightning Invoices

BitLoan Microloan Web App, Apr 2025

Bitcoin Lightning (LNBits and Voltage), Python, Streamlit

- *MIT Blockchain Hackathon Participant*
- Developed a decentralized, peer-to-peer Bitcoin lending platform
- Facilitated instant Bitcoin lending and borrowing via the Lightning Network, utilizing LNbits and Voltage

Soles Blockchain Mobile App, Apr 2024 - June 2024

Bitcoin Lightning (Voltage), TypeScript, React Native

- *MIT Blockchain Hackathon Winner*
- Developed mobile application developed on Blockchain technology for authenticating sneakers
- Facilitates sneaker verification and allows payments via BTC Lightning Invoice

AI Projects

Autonomous Vehicle Object Detector, Dec 2020

Python, Tensorflow, Darknet, YOLO

- Developed a YOLO and Darknet-based model for detecting various objects, including traffic signs, lights, and cars
- Curated a dataset of over 1000 images per class using Google Open Images
- Improved model accuracy by training with YOLOv4 pre-trained weights to achieve higher Mean Average Precision

BTC Sentiment Analysis, Nov 2020

Python, Streamlit, Tweepy, Vader, TextBlob, Topic Modeling

- Scraped Tweets with SNScrape and Tweepy to correlate Bitcoin's sentiment with its current and historical price
- Performed sentiment analysis on tweets using Vader and TextBlob to evaluate Bitcoin's sentiment
- Applied LDA, NMF, and Corex topic modeling to observe Twitter topic discussions

Technical Skills

Programming Languages: Python, SQL

Machine Learning: Natural Language Processing (NLP), Supervised & Unsupervised Learning, TensorFlow

Data Science Models: Random Forest Classifier, XGBoost Classifier, Generalized Linear Model, Logistic Regression

Cloud: Google Cloud (BigQuery), AWS (Snowflake)

Work Experience

Senior Data Scientist, June 2021 - April 2024

The General Car Insurance, Remote

- Developed Logistic Regression Model for lead transfers, boosting sales by 2% and profit by \$23M
- Deployed Real-Time Bidding GLM with Poisson Distribution, increasing CTR by 80%, decreasing CAC by 47%, and increasing Revenue/Spend by 91% by targeting LTV and Expected Premium for advertising and marketing campaigns
- Developed Random Forest Classifier with NLP, achieving 98% accuracy in identifying not-at-fault claims
- Executed A/B testing and statistical analysis (p-values, confidence intervals) for decision-making
- Facilitated meetings with Marketing Stakeholders to formulate B2C initiatives
- Mentored two individuals in Data Science through the In-Residence program

Business Development Manager, Feb 2023 - July 2024

Swisspod Hyperloop, Remote

- Successfully cultivated client relationships with U.S. state and federal agencies, resulting future partnerships
- Developed a comprehensive feasibility study for a hyperloop freight transportation system
- Compiled and analyzed municipal, regional, and national data to identify the optimal initial pilot route

US Public Affairs & Feasibility Studies Contributor, May 2021 - Jan 2023

HyperloopTT, Remote

- Engaged with US public and private sector clientele, articulating the economic advantages of hyperloop technology
- Established professional relationships with the Port of Virginia, Virginia Passenger Railroad Authority, and Virginians for High Speed Railroad

Account Manager, Apr 2019 - Aug 2019

Bright Power, New York, NY

- Secured over \$1,000,000 in new solar and energy contracts with more than 40 affordable housing clients
- Developed proposals incorporating energy efficiency and solar solutions, demonstrably reducing CO2 emissions

Commercial Project Developer, Oct 2018 - Jan 2019

Solar Landscape, New York, NY

- Directed the development of a 54.4 MW commercial and industrial solar project pipeline, encompassing rooftop, ground mount, and carport installations
- Generated a pipeline of over 100 prospective client projects, ranging from 100 kW to 1.5 MW, for both direct purchase and Power Purchase Agreement options

Energy Manager, Oct 2017 - Apr 2018

Aramark, New York, NY

- Conducted comprehensive energy assessment at Queen's College to ensure adherence to New York City Local Law 87
- Developed and implemented Excel macros, resulting in a 98% increase in data analysis efficiency

Education

Bachelor of Science, Industrial Engineering, *Virginia Tech, Blacksburg, VA*

Data Science Bootcamp, *Metis*, Sept 2020 - Dec 2020