Hasan Khan

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Professional Experience

Data Scientist – LMI, U.S Federal Consulting   8/2018 - 5/2021
Providing advanced analytics services for federal clients, with a focus
on building machine learning capabilities. Highlighted projects:

Lead Time Estimation - Implemented supervised regression models to optimize   5/2019 - 6/2020
rare inventory lead time estimation for a U.S Defense Agency. Random forests
trained on 10+ years of inventory procurement data resulted in a 37% improve-
ment of lead time predictions for rare procurements over baseline metrics, with
an annual expected savings of $45M on inventory holding costs.

Survey Integration Platform - Designed and developed a survey analytics web   8/2020 - 5/2021
application for NASA HR using Python Dash. Utilized BERT language models for
sentiment analysis and topic modeling on free response survey comments.

Digital Analyst - Worked in a four member team to build core functionalities for a   2/2018 - 11/2019
natural language analytics assistant application. Played a lead role in the initial
development and design methodology of the application, now a full LMI offering.

C3A - Designed an environment management framework for LMI's Data Science   2/2020 - 4/2020
and Machine Learning practice. Integrated disparate environement management
and version control tools into a single toolkit, and drafted documentation and
video tutorials for the framework.

Research Experience

Research Assistant – Meliza Lab, UVA Psychology Department   5/2016 - 8/2018
Modeled neurons in Python to simulate auditory cognition processes
in Zebra Finches. Coded custom Recursive Bayesian Filters (RBF) for
biophysical parameter estimation of High Vocal Center neurons.
Researched in-vivo recording mechanisms w/ RBF estimators to
classify auditory neurons based on ion channel makeup.

Education

New York Universty – M.S Computer Science   9/2021 - Current

University of Virginia – B.A Computer Science, B.A Cognitive Science   8/2014 - 5/2018
GPA: 3.34

Proficiencies
Languages: Python, Java, C++, SQL, HTML
Libraries: pandas, matplotlib, sklearn, keras, openCV, MLflow
Platforms: AWS, Git, Docker, ElasticSearch
Coursework: AI, ML, Computer Vision, Algorithms, Learning Theory

Additional Roles

Cofounder – Alif Seh Yeh, Urdu Language Education Platform   5/2019 – Current
Editor & Columnist – The Cavalier Daily, Opinion Section   11/2014 – 1/2017
Teaching Assistant – Introduction to Computer Programming   8/2017 – 5/2018
Vice President & Cofounder – UVA Machine Learning Club   8/2016 – 5/2018
English Second Language Tutor – International Rescue Committee   6/2017 – 5/2018