

Muhammad Noman Baig

updated February 14th, 2024

Data Scientist

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Education

University of Karachi Karachi, PK

August 2018 – May 2022

- Bachelor of Science in Software Engineering
- Head Teaching Assistant, Object Oriented Programming (CS 1331)
“aghhhh love noman! 10/10 would recommend” (source: Fall 2020 anonymous course evaluation)
- Managed 4 teaching assistants and 120 students per semester
- Developed and taught lectures, designed and administered exams, assisted with creating materials for online course

Work

Safe Partner, Inc. – Data Scientist – Remote Belmont, CA

July 2022 – present

- Collaborated with cross-functional teams on Global Interconnection Index (GXI) for Equinix, using statistical analysis & machine learning to redefine leader benchmark which now covers 1,000 leaders' companies & over 11,000 deployments, automated ETL pipeline have reduced reporting time by approximately 90%
- Developed customer analytics dashboard to communicate actionable insights by understanding land & expand patterns between STAR & NON-STAR accounts to stakeholders, replaced quarterly reporting efforts
- Automated Win/loss quarterly report by replacing manual excel data preparation with python-based scripts to cut-down data preparation time & enabling self-service for stakeholders

FoodPanda - Data Scientist – Onsite Karachi, PK

August 2021 – April 2022

- Lead insights team while having effective collaboration with leaders and executives across business verticals to make more informed decisions.
- Developed, actively manage and mentor central data team at foodpanda Pakistan
- Map customer journey to create magical customer experience by identifying and addressing issues with data-backed strategies

Proxima AI - Data Science Intern – Onsite Karachi, PK

Summer 2021

- Utilized data analytics and visualization techniques to assist in legal research and decision-making processes to Injurlytics owners
- Created a binary regression model to predict if the case of an operation will breach SLA with an F1 score of 89% and created a web application around this using streamlit

Research

UBIT Tech - Research Assistant – Data Science Society Karachi, PK

January 2021 – May 2022

- Conducted research under supervision of Prof. Dr. M. Saeed on predictive maintenance techniques for manufacturing equipment to optimize asset availability and reduce maintenance costs.
- M. N. Baig, C. Seim and T. Starner, “A preliminary apparatus and teaching structure for passive tactile training of anomalies,” 2021 IEEE World Haptics Conference (WHC), Tokyo, Japan, 2021. -Remote
- M. N. Baig, “Passive Machine Learning to Forecast Equipment Failures,” 2022. Undergraduate Thesis.

Projects

PlayBot AI Oct 2021 – May 2022

Deep Reinforcement Learning Game Bot CS 7632

- Designed, built, and deployed an open-source bot for playing games, a free series of decision making with goal-oriented behavior
- Trained game agents to achieve superhuman performance against CPU

AutoMark September 2020 – May 2021

Grading tool with collaborative filtering for CS 1331 teaching assistants

- Built a grading tool with a powerful web app in Django and Python
- Used static and dynamic code analysis to analyze student submissions
- Designed an extensible plugin framework for automatic point deductions

More projects and information available at github.com/nomanbaig98

Skills

Languages

Python, SQL, R, JavaScript, TypeScript, Bash

Technologies

Numpy, Pandas, Tensorflow, scikit-learn, Power BI, AWS, Jupyter, Seaborn, Keras, PostgreSQL, AI, Odo, OpenAI, GPT, LLM, Django, Flask, React, Node.js, RESTful API, OpenCV, NLP, Tkinter, ML, PyTorch, PyCharm, ETL, Selenium, Scrapy

Spoken Languages

English (fluent), French (conversational)