USMAN GOHAR

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PROFESSIONAL SUMMARY

An experienced Data Scientist with 3+ years of research experience across ML & AI. I have work experience in building and deploying predictive models, data engineering, visualization, and time-series forecasting.

EDUCATION

Ph.D. Computer Science | **Iowa State University** 2020 - Present
MSc. Computer Science | **University of Minnesota** 2017 - 2019
B.E Computer Engineering | **National University of Sciences & Technology** 2017

SKILLS

Tech Stack: Python, R, SQL/NoSQL, Spark, Scikit-learn, Seaborn, TensorFlow, Tableau, Jupyter Notebook
Data Skills: Exploratory Data Analysis, Predictive Analytics, Time Series Analysis, Forecasting, Machine Learning, Data Mining, Advanced Statistics, Statistical Modeling, A/B testing, NLP, Text Analytics

WORK EXPERIENCE

Research Assistant Aug 2020 - Present
Iowa State University Ames, IA

- Leading multiple ML projects to investigate fairness and algorithmic bias in ML systems
- Collaborating with different labs and faculty on interdisciplinary research projects
- Event Detection from Tweets using unsupervised text keyword analysis & clustering (*ML* | *NLP*)

Data Scientist - Intern May 2021 - Aug 2021
Bayer Creve Coeur, MO

- Investigated the effects of irrigation on row-crop yield prediction
- Collected relevant historical irrigation data, including well levels, river, and aquifers from disparate sources (USDA, USGS) and aggregate for EDA and modeling
- Designed grower-level ML value-proposition model to determine Bayer seeds' competitiveness

Software Developer - (Data Scientist) Sep 2019 – Aug 2020
Open Access Technology International Minneapolis, MN

- Led a team of developers to build a framework for energy forecasting for Micro Grid
- Designed and built data pipelines to ingest data from production (SQL, MongoDB), performed data preprocessing, feature engineering, model evaluation, and developed dashboards on Tableau
- Developed end-to-end predictive model to predict energy load forecast based on historical load, weather & exogenous data. Experimented with multiple ML & statistical algorithms to improve predictions
- Automated deployment of models using Jenkins & Ansible to reduce deployment time & error builds (80%)

Data Scientist - Search Engine Optimization Intern Jun 2017-Aug 2017
Progos Tech Islamabad, Pakistan

- Interpreted data to develop metrics to analyze shopping trends. Wrote complex SQL queries to extract data from multiple databases, processed in Jupyter notebook, & visualized in Tableau dashboards
- Supported search engine optimization team to improve average monthly website traffic (+4K) and ranking using data-driven decisions. Designed and performed A/B testing on new website features

FELLOWSHIPS AND OPEN SOURCE

- Technical content contributor for the *Towards Data Science* publication on Medium with over 50K views
- Awarded the Teaching Excellency Award from the Department of Computer Science (2021)
- Recipient of the F. Wendell Miller Scholarship awarded to outstanding graduate student (2020-2023)
- Invited talk at Data Science Minneapolis on my research: Trajectory Outlier Detection (2019)
- Summer Graduate Research Fellow, University of Minnesota (2018)