

PROFESSIONAL OBJECTIVE

To leverage my strong analytical skills, advanced statistical knowledge, and expertise in machine learning to drive data-driven insights and develop innovative solutions as a data scientist. With a passion for uncovering patterns and extracting valuable information from complex datasets, my objective is to contribute to an organization's strategic decision-making, optimize processes, and deliver actionable recommendations that result in improved business performance.

SKILLS SUMMARY

- **Regression analysis of cross-section, panel and time series data**, analysis of limited dependent variable models, simultaneous equations models, seemingly unrelated regression and analysis of production-cost flexible form functions
- Working environment: **R, Python, MS SQL, SAS, SAS/BASE, SAS/SQL Microsoft Office**
- Tech stack: **GraphQL, bash scripting, PHP, Javascript, Matlab, Stata, Eviews, AWS, Azure**
- Operational tasks: **project prioritization, scoping, model execution**
- Supervised machine learning and predictive modeling: **Application regularized generalized linear models** (LASSO and Ridge)
- Used **H2O package (SAS, R and Python)** to estimate regression models for outcomes following exponential distributions
- Set up **H2O & RStudio Server on Amazon Web Services, SPSS and Tableau**
- Used **cluster analysis, spatial and geographical regression analysis, nearest neighbor regression, logistic regression analysis**
- Hobbies: reading, chess, soccer

WORK EXPERIENCE

Sr. Data Scientist,

Head of Corporate Online Training Division at AGROBANK JSCB, Tashkent, UZ

Aug 2021 – May 2023

- **Led the NLP modeling project** to improve service quality by automatic labeling of customer feedback, reviews, social media posts and survey data based on the tone or sentiment and to identify the areas to improve and track changes in sentiment over time
- Collected data and conducted analyses through different methods (Online tests, impulse surveys, random interviews) among customers, employees and senior management to measure employee satisfaction, engagement, and overall job satisfaction
- **Developed key metrics to measure employee performance and satisfaction**
- Established a **systematic predictive modeling approach to evaluate employee performance**, lifetime ROI based on historical key performance indicators (KPIs) and metrics relevant to each role such as relevant skill sets, experience and training and to identify high-performing employees, address performance gaps, and provide targeted feedback and training opportunities.
- Became a product manager for a **staffing model to determine the number of business trainers needed** to effectively service the staff in regions
- **Reduced the number of on-premise trainings by 60%**, developed and integrated monitoring, evaluation and business planning strategies and programs, and **increased training ROI by 85%**;
- Managed two developers on various projects, including creating **data pipelines, dashboards, visualizations, automatic generation of quarterly reports, identifying trends, patterns, and correlations in employee performance data**
- Implemented advanced analytics models with both real-time (social media APIs) and batch scoring
- **Forecasted employee retention and trends** and **make descriptive stats reports** lift curves, PTI benefits, elasticity, statistical tests

DATA SCIENTIST at Induci inc., FL, USA

July 2019 – July 2020

- **Predicted weekly sales** for the next quarter
- Examined daily sales data from the last three years to create models, and ARIMA and GARCH models were used
- **Identified shopping behaviors/trends** that were not being fully utilized by chain stores
- Integrated and feature engineered large datasets from remote servers using SQL
- **Forecasted losses and trends** and **make descriptive stats reports** lift curves, PTI benefits, elasticity, statistical tests
- Modelled **customer segmentation** by exposure characteristics
- Estimated insurance retention rate and deductible study analysis
- Made thematic choropleth maps for loss allocations
- Modelled coastal and inland flood cat scoring
- Conducted cyber security frequency and severity analysis studies

RESEARCH ASSISTANT at LSU, LA, USA

August 2016 - May 2020

- Taught ECON 2010 and ECON 2030 undergrad courses
- **Peer-reviewed IJFR Journal submissions** as an editorial team member in the area of finance, econometrics, applied economics and financial statistics
- Written a number of research papers using **dynamic models**, such as VAR model variations (BVAR, SVAR, TVAR, VECM), RBC, DSGE (dynamic stochastic general equilibrium) models, and using **linear probability models**
- Worked with Methodology and Solvency II
- Worked on spreadsheet required controls on Credit and Property Test, Reinsurance Credit Test

DATA ANALYST at land management and real estate cadaster, Andizhan, UZ

May 2014 - August 2019

- Conducted feature engineering, model selection and model training and evaluations to **predict housing prices**
- **Identified patterns**, relationships, and anomalies in the data
- Created databases, assigned access permissions, designed and created database views using SAP
- Conducted **data extraction, data cleaning, preparation, visualization** using different files and data sources
- Utilized ARCGIS software to analyze spatial data and map land and real estate information. Created thematic maps using shapefiles, spatial analysis, and geospatial modeling to identify spatial patterns and relationships within the data
- Identified and resolved **data discrepancies, outliers, or inconsistencies** in the land and real estate data
- **Analyzed growth of office space** using R, Anaplan forecasting tool
- Collected and analyzed labor statistics, **estimated trends in housing demand and supply**

EDUCATION

Louisiana State University, LA, USA

- **Master's in Applied Economics**

Louisiana State University, LA, USA

- **Graduate Diploma in Advanced Econometrics**

The University of Westminster, London, UK

- **Bachelor's in Economics and Applied Finance**

LANGUAGES

- English
- Uzbek
- Turkish
- Russian
- French (elementary)