**Edward Moradian**

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**SKILLS & ABILITIES**

* Statistical Analysis: Hypothesis Testing, Point Estimation, Power Analysis, Survival Analysis
* Statistical Models: A/B Testing, ANOVA, Linear Regression, Logistic Regression, Time Series, Bayesian
* Machine Learning Models: Decision Trees, Neural Networks, Support Vector Machines and K-Means Clustering
* Machine Leaning Platforms: Pytorch, Tensorflow, SciKit-Learn, Keras, H2O, SAS Viya, SageMaker
* Programming Languages: R, SAS, Python, Java and Visual Basic
* Machine Learning Tasks: Prediction, Classification, Clustering, NLP
* Web Application Development: Flask, JavaScript, HTML, CSS
* Data Visualization and Dashboarding Tools: Tableau, Microsoft Power BI, Plotly, R, SAS and Microsoft Excel
* Relational Database Management Systems: Oracle, MySQL and Microsoft SQL Server
* Data Warehousing: Amazon Redshift, Google BigQuery
* Cloud computing environments: AWS, Google Cloud Platform and Microsoft Azure
* Distributed Computing on Big Data: Hadoop, HDFS, MapReduce, Pig, Hive and HBase
* Version-control of programs using Git with GitHub and GitLab
* Microsoft Office: Microsoft Word, Excel, Outlook, PowerPoint, SharePoint, Lync, Publisher and Access
* Microsoft Excel: Vlookup, macros, functions using Visual Basic, pivot tables, pivot charts and statistical analysis
* Enterprise Resource Planning Software: Oracle and SAP
* Writing: AP, APA, Turabian, CMS and MLA style

**EDUCATION**

**M.S., Statistics (Applied Statistics Option)**, CSU, East Bay, Hayward, CA (GPA: 3.87) 06/2019

Relevant Coursework: Probability Theory, Data Warehousing, Advanced Statistical Inference, Data Visualization, Machine Learning, Deep Learning, Regression, Database Management and Applications, SAS Programming, Big Data, Categorical Data Analysis

**B.A., Psychology**, CSU, East Bay, Hayward, CA (GPA: 3.86) 12/2013

**B.A., Philosophy**, CSU, East Bay, Hayward, CA (GPA: 3.74) 12/2013

Relevant Coursework: Experimental Psychology, Statistical Methods in the Social Sciences, Social and Personality Psychology Research Lab, Developmental Psychology Research Lab, Philosophy of Science, Formal Logic

**WORK EXPERIENCE**

**Capgemini**, Data Scientist Consultant, Los Angeles, CA 03/2020 – Present

* Developing front-end to back-end machine learning applications to serve business use cases for internal and client projects.
* Building statistical and machine learning models for prediction, forecasting, classification and NLP.
* Creating Flask web applications as the front-end user interface of data science projects.
* Database administration using MySQL to serve data transactions between application user and database.
* Version-controlling Python and R programs using Git with Bitbucket.

**Canvas Worldwide (Robert Half)**, Senior Analyst, Playa Vista, CA 11/2019 – 03/2020

* Created dashboards in Microsoft Power BI for weekly and monthly marketing reports for Genesis.
* Created dynamic and interactive dashboards based on user input for parameters and filters.
* Automated dashboards to periodically refresh connections to data sources for future on demand marketing reporting.
* Updated historical data from third-party vendor data with newer data using scheduled R scripts.
* Data cleaning, wrangling, joining and exception handling the data updating process.

**Penumbra, Inc.,** Statistics Intern, Alameda, CA 05/2019 – 08/2019

* Worked closely with the statistics team to automate repetitive SAS statistical analysis.
* Built the global and local SAS macro library for the statistics team.
* Created, edited, tested and debugged SAS macros.
* Wrote technical documentation detailing description, purpose, parameter definitions, execution requirements and expected output for each macro.
* Version-controlled SAS macro programs using Git with GitLab.

**Environmental Defense Fund,** Economic Policy Intern, San Francisco, CA 02/2019 – 05/2019

* + - * Created complex structured datasets from raw unstructured datasets.

Data wrangling, cleaning, validating and analyzing using R.

* + - * Created raw unstructured datasets from GIS raster and shape files.

Resampling, spatial joining and calculating zonal statistics using ArcGIS.

* + - * Graphically represented GIS raster and shapefiles with data visualizations.
      * Performed test runs to ensure no defects in the columns, rows or values in the datasets.
      * Maintained version-controlled and thoroughly documented R notebooks.

**State Compensation Insurance Fund**, Data Science Student Assistant, Pleasanton, CA 06/2018 – 08/2018

* + - * Collaborated with the predicative analytics and modeling team with the implementation of a new actuarial data mart through user acceptance testing.

Performed UAT test runs on the claims payment aging by date of injury table.

Debugged SQL source scripts and target scripts to verify data matching test case between two different database schemas for all claims.

Used pass through queries in SAS to use proc compare to compare the SQL source script and target script tables.

Solved all defects with exact match between the tables.

Performed sanity checks in Oracle SQL Developer to verify valid mathematical relationships between the facts in the claims payment aging table for all claims.

Documented test runs of test cases with version-controlled SAS programs in HP Application Lifecycle Management for possible review by the internal audit team.

**PROFESSIONAL MEMBERSHIPS**

* Institute of Mathematical Statistics, student member
* American Statistical Association, student member
* The Western North American Region of The International Biometric Society, member
* Psi Chi, The International Honor Society in Psychology, member
* American Philosophical Association, student member