|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Shafin Mohammed Python | SQL | Data Science | Data Analysis | Machine Learning | Django | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | P |  | 530-902-0579 |  | E |  | shafinmohammed@gmail.com |  | A |  | Davis, CA | |  | W |  | [LinkedIn](https://www.linkedin.com/in/shafin-mohammed-50615447/) • [Github](https://github.com/shafin071/) • [Portfolio](https://shafin071.github.io/shafinmohammed.github.io/#home) |
|  | | | | | | | | | | | | | | | | |
| Profile | | | | | | | | | | | |  |  | | | |
| Python and SQL developer with experience in data science, analytics and  machine-learning. Looking to undertake new challenges in the world of big data  as a Data Scientist/Analyst. Education | | | | | | | | | | | |  | KEY SKILLS   Coding Language:   * Python, SQL   Data Science/ML:   * Numpy, Scipy, Pandas,   Scikit-learn, Statsmodel,  NLTK    Data Visualization:   * Plotly, Tableau   Database:   * MySQL, PostgreSQL,   SQLite    Web Framework:   * Django, Django REST Framework   Web Application:   * Github, AWS S3,   AWS EC2, Heroku,  Postman  Web Framework:   * HTML, CSS, JavaScript   API:   * Stripe, Google Map, Mapbox   RF Technology:   * LTE, WCDMA/UMTS, GSM   RF Tools:   * iBwave, SeeHawk,   TEMS Pocket, Roofview | | | |
| |  |  | | --- | --- | | ***Undergraduate***  ***George Mason University, VA***  September 2009 – May 2012  Electrical Engineering | ***Graduate***  ***George Mason University, VA***  January 2015 – May 2017  Telecommunications |  CERTIFICATIONS | | | | | | | | | | | |
| - Advanced SQL + MySQL for Analytics & Business – Udemy  - Python for Data Science and Machine Learning Bootcamp - Udemy PROJECTS | | | | | | | | | | | |
| **COVID-19 Analysis:** Data visualization and forecast on S. Korea COVID-19  dataset using Python. Map visualization of contagion using Plotly and Mapbox  API. Forecast using Statsmodels exponential smoothing on date-time series.  Forecast had a MAPE of 2.41%. [Jupyter Notebook](https://shafin071.github.io/covid19-analysis/)  **Automobiles Data:** Data imputation and determination of a suitable supervised  ML algorithm amongst KNN, SVM, Random Forest Classifier. ML selection was  done using Stratified KFold and GridSearchCV. [Jupyter Notebook](https://shafin071.github.io/automobiles_imputation_classification/)  **Buzz Words with NLP:** Finding most frequent words from a dataset of commercial  slogans using Python NLTK and Scikit-learn. [Jupyter Notebook](https://shafin071.github.io/nltk-ex-1/)  **<Hello World/> Full-stack project:** A dummy eLearning website built with django, RESR  Framework, JavaScript, Bootstrap and Stripe API to provide user experience as a  student. Hosted with Heroku and AWS S3. [Website](https://shafin-elearning.herokuapp.com/) [GitHub](https://github.com/shafin071/hello-world)  **pybot n00b:** Automated test performed on <Hello World/> project. Script written  with Python unittest module and Selenium. The test results are formatted and  emailed. [Watch Demo](https://youtu.be/aqrQ4hAe17Q) [GitHub](https://github.com/shafin071/pybot.n00b) | | | | | | | | | | | |
| Experience | | | | | | | | | | | |
| *IDARE LLC,*  ***Application Engineer, March 2018 - April 2020***  A Houston based startup with a vision to develop a SaaS for the energy industry. An application that automates and optimizes complex time-consuming engineering designs to significantly reduce project completion time. Responsible for implementing vast amount of calculations in IDARE’s application engine.   * Converted complex Mathcad calculations to analytics scripts using Python’s scientific libraries (Scipy, Numpy), Scikit-learn for ML modelling and data visualization libraries (Plotly, Cufflinks). * Implemented algorithms like binary search and memorization to speed up calculation * Analytics served as API using django and django REST framework * Created interactive UI using vertical stepper template and jQuery for users to send input data to the analytics API * Results were saved as pdf reports using wkhtmltopdf package and saved into database for user to download.  **UDPlatforms,** **Junior Software Developer (Internship), December 2017-February 2018** **Map Visualization Project:** Developed a prototype for a web-based solution to visualize traffic data in USA   * Data was extracted from large csv files and loaded into PostgreSQL database. * Queried, filtered data from database and sent them to Google Map API for visualization * Used Google Map API features like marker clustering, custom markers with info window and choropleth map.  **Mobilitie LLC,** **RF Engineer, April 2016–November 2017**  * **Market Lead:** Responsible for the south region market for Small Cell LTE/VoLTE (4G) project. Worked with the Network Real Estate (NRE), Site Selection & Sprint local RF teams to review and approve Small Cell candidates using ArcGIS. Worked with Sprint’s Network Vision and mTRAC to make sure all candidate information/status for the market was up to date. Reviewed and approved propagation maps generated by Sprint LRF for candidate submission. * **Team Lead:** Introduced Electromagnetic Emissions (EME) analysis program in Mobilitie to aid permit application for small cell and backhaul candidates. Worked with the Network Real Estate (NRE), Architect & Engineering (A&E) teams and Professional Engineer (PE) to develop guidelines and process flow for report creation. Trained engineers on EME studies, FCC compliance and OSHA RF Signage Guidelines. * **DAS Commissioning:** Attended and monitored DAS Commissioning process. Worked with the commissioning engineer to gain key insight on in-building infrastructure and DAS optimization. Derived front-end link budget calculations from iBwave design to make sure target pilot power was reached. * **DAS Benchmark & Optimization:** Performed drive/walk tests for Benchmark reports using SeeHawk and TEMS pocket. Good knowledge of LTE/CDMA/UMTS desirable KPIs. Finish tests within the given deadline regardless of challenges/setbacks faced.  **Telnet-inc,** **RF Engineer, June 2012-April 2016** **EME:** Part of an Electromagnetic Emissions (EME) Compliance team in different AT&T, T-Mobile and Verizon markets. Used raw EME data from various client antenna sites to create EME reports and perform Computer Modeling & Calculation using “Roofview” to ensure the sites are FCC compliant. | | | | | | | | | | | |