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|  |  | Shafin Mohammed  Python Developer |Data Science & Analysis |Machine Learning | Django | RF Engineer |
| Profile Former RF Engineer looking to undertake new challenges in the world of big data and artificial intelligence as a Data Scientist/Analyst.  1-year work experience in Python, database and machine learning. Contact PHONE:  530-902-0579  [Portfolio](https://shafin071.github.io/shafinmohammed.github.io/#home)  [LinkedIn](https://www.linkedin.com/in/shafin-mohammed-50615447/)  EMAIL:  [shafinmohammed@gmail.com](mailto:shafinmohammed@gmail.com) SKills **Coding Language:**   * Python * SQL   **Scientific Libraries:**   * Numpy * Scipy * Pandas * Scikit-learn   **Data Visualization:**   * Tableau * Plotly   **Databases:**   * MySQL * PostgreSQL * SQLite   **Web Framework:**   * django * django REST Framework   **Web Applications:**   * Github * Heroku * AWS S3, EC2 * Postman   **Web Development:**   * HTML * CSS * JavaScript: jQuery, React(beginner)   **APIs:**   * Stripe * Google Map * Mapbox  RF SKills **Technologies:**   * LTE * WCDMA/UMTS * GSM   **Tools:**   * iBwave * SeeHawk * TEMS Pocket * ATOLL * Roofview   **Certifications:**   * iBwave Level 1 & 2 * Corning ONE Level 1 * JMA Teko DAS |  | EDUCATION  |  |  | | --- | --- | | Undergraduate:*George Mason University, VA* September 2009 – May 2012  Electrical Engineering | Graduate:*George Mason University, VA* January 2015 – May 2017  Telecommunications |  Portfolio Projects **COVID-19 Analysis:** Data visualization and forecast on S. Korea COVID-19 dataset. Map visualization of contagion using Plotly and Mapbox API. Forecast using Statsmodels exponential smoothing on date-time series. Forecast had a MAPE of 2.85%. [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/)  **Word Count:** 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/>:** A dummy eLearning website built with django, JavaScript, Bootstrap with various other tools 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) WORK EXPERIENCEIDARE LLC, Dhaka, Bangladesh,*Application Engineer, March 2019–February 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). * 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, Dhaka, Bangladesh,*Junior Software Developer (Internship), September 2018-February 2019* **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.  WORK EXPERIENCEMobilitie LLC, Atlanta, GA,*RF Engineer, April 2016–November 2017*  * **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. * **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.  Telnet-inc, Rockville, MD,*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” a software analysis tool for evaluating radio frequency (RF) field levels at rooftop telecommunications sites analysis to ensure the sites are FCC compliant. Recommend signage and exposure blocking barriers based on OSHA RF standards on Radio Frequency (RF). |