

Faheem Ashraf

Portfolio Website: <https://sites.google.com/view/faheemashraf1/>

Mail ID : faheemashraf02@gmail.com

+917889540439

A Diligent Analyst seeking an opportunity to leverage my diverse skills and experience in data mining and analysis at a position in your company. A quick learner who can absorb new ideas and can communicate clearly and effectively.

- Experienced and well educated professional with good statistical knowledge and ability to find data in the sea of information.
- Technologically native with operating systems like Linux and Windows as well as networking.
- Excellent Communication skills, both interpersonal and professional, collaborating with others.
- Highly organized, talented multitasker, managed positions both on field and off field.
- Maintain professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies.
- Mathematics, statistics, algorithms, and calculation skills.

Willing to relocate to: Pune, Maharashtra - Bengaluru, Karnataka – Hyderabad

Work Experience

Data Analyst

Aerogram Private Limited (IIT Delhi incubation Startup)

September 2018 to Present

Aerogram is an environmental data analytics company which makes devices for monitoring and analyzing air pollution. Company has developed several products in association with IIT Delhi faculty.

Role & Contribution

- Set analytics goal and understood the data by performing exploratory data analysis using statistical measures and visualization to find patterns.
- Visualization helped to identify the correlation among the data and were removed to avoid multicollinearity. Also, spurious relationships associated with time effect were identified and removed to avoid auto correlation.
- Cleaning involved removing missing values using imputation/interpolation, removing outlier based on their proportion across variables.
- Designed, created and maintained relational databases and operational data systems
- Time series forecasting, Regression Analysis, Spatial Interpolation, Image segmentation and analysis.
- Deep learning, Open CV, digital image processing and general web development.
- Created Data Pipelines in the Google Cloud Platform and then retrieved data to third party platforms for analysis and visualization.
- Worked extensively in IoT domain and run parallel processes of sensors.
- Have used python APIs(HTTP/MQTT) to send data from the sensors/field devices to the data storage platforms.

SCADA Engineer

C. Doctor India Pvt. Ltd

March 2018 to June 2018

- Weekly PLC Diagnostic runs and collect data for failure operations and faults.
- Daily log generation reports and rectification of the faults.
- Software maintenance and patching along with hardware repair and maintenance.
- Record and analyze Offset values from the data and accordingly calibrate the sensors.
- Analyze data using Python Libraries in Jupyter Notebooks.

Analyst

Global Stringent Technologies

August 2017 to March 2018

- Management of client accounts and transactions at the database level.
- Installation and configuration of database servers over various systems.
- Maintenance and security of these databases.
- Allow developers the access and privileges of the data present in these databases.

Linux Admin

NIIT Limited

July 2016 to February 2017

- Create Virtual Training Classroom Sessions on Cloud (AWS EC2)
- Build database of Corporate, Individual learners and Instructors across globe
- Provide the Technical Support resolutions in Linux environment.
- Create Virtual Machines (VMs) for learners and instructors.
- Perform detailed case analysis and document the case in the system and generate ticket.

Network Engineer

Aerial Telecom (Ericsson India)

November 2013 to November 2014

- Worked in field in installation, commissioning and troubleshooting of telecom equipment's.
- Extraction, Processing and Organization of Data from various transmission and networking equipment's and maintained escalation matrices.
- Worked in Coordination with Technical and Business teams to analyze network key performance parameters.
- Performed various analysis on the systems i.e Drive test analysis, Trace Analysis, RAN optimization.
- Produced weekly and monthly charts and visualizations to depict performance parameters.

Engineer Trainee

Infrastructure Networks

January 2013 to November 2013

- Assisted the field engineers in their work and learned from them the network architecture and routing.
- Studied the specifications and bandwidth of the various network devices used in the networks.
- Recorded the data logs and then analyzed them with the engineers to detect anomalies and functioning of the equipment's.

Education

M.Tech in Electric Devices and Power Systems

Maharishi Dayanand University, Masters of Technology 2014 to 2016

Bachelor of Technology in Electronics and Communication

Islamic University of Science and Technology 2009 to 2013

Tyndale Biscoe School 1994 to 2008

Skills / IT Skills

Machine Learning (2 years), Data Analysis (3 years), MS Excel (4 years), Deep Learning (1 year), Neural Networks (1 year), Python (3 years), TensorFlow (1 year), NumPy (2 year), Pandas (2 year), PyTorch(1 year), OpenCV(1 years)

Projects / Papers Presented

Project Assistant (CSE, IIT Delhi)

Jan 2020 - Present

Concerned Professor Dr. Riju Rekha Sen

Data Analysis and Visualization of Air Pollution in Delhi Area through a network of IoT monitoring devices.

IIT Delhi Bus Project

<https://www.thehindu.com/news/cities/Delhi/iit-delhi-team-to-study-impact-of-odd-even-scheme/article29480771.ece>

- Developed Air Pollution and Traffic monitoring devices on single board computers (Raspberry Pi, Beagle Bone) with research purpose of analyzing and visualizing the air pollution in the region of Delhi and identify the regions with high concentration of PM 2.5.
- Created Python Scripts for extracting data (Micro python) from the sensors and creating suitable data structures to store them and then send them over to the cloud services.
- Developed data pipeline for structuring data coming from the devices into various transforms and finally dumping the data into database.
- Extracting and Loading the data from databases and then analyzing and visualizing the data using Numpy, Pandas, Matplotlib, Seaborn and Sklearn to drive useful insights.
- Time Series Modeling and Predictions using tensorflow and OpenCV.

Study of Smart Grids , Vision, Mission and Road Map in India

<http://jrps.in/uploads/2016%20april-june%20v7i3/12%20v7i3%20abstract%20Faheem%20paper%202.pdf> June 2016

The paper states the current situation of the smart grids project and their road map.

Additional Information

SKILLS

- Operating Systems (Linux, Windows, Raspbian)
- Programming Language (Python, JS, HTML, C++)
- Cloud Platforms (Amazon Web Services, Google Cloud Platform)
- Google DataFlow, Google DataProc, Google Pub/Sub, Google Storage, Google Compute
- Web Development (React.JS, Node.JS, Express.JS)
- Data Analysis and Visualization using Python (Pandas, NumPy, Seaborn, Matplotlib, folium, Geopandas, SciPy)
- Internet of Things (IoT).
- Computer Networking.
- Database Management (MySQL, Spark, MongoDB).
- Machine Learning and Neural Networks (Sklearn, TensorFlow)
- Data Mining, Data Modeling, Predictive Analytics.
- Python Automation Scripting.