

MOHIT AGGARWAL

Fontana, CA • (817) 879-5036 • mohitagr18@gmail.com

Data Science Project Portfolio: <https://mohitagr18.github.io>

PROFILE

Energetic self-motivated professional with 10+ years of experience in delivering valuable insights and actionable recommendations via advanced data driven methods. Adept at data processing, exploration, visualization, and development and interpretation of machine learning models to solve complex problems. Excellent technical writing and story-telling skills to convey the findings to a wider audience.

Core competencies include:

- Data Analysis with Python, R, SQL, SAS and Excel
 - Data Exploration, Visualization and Predictive Modeling
 - Machine Learning and Statistical Analysis
 - Customer Needs Evaluation and Process Improvement
 - Waterfall and Agile Methodologies
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EDUCATION

- **M.S. Analytics**, Georgia Institute of Technology, GA **Jan 18-Dec 19**
Coursework – Machine Learning, Analytics Modelling, Python for Data Analysis, Data and Visual Analytics, Regression Analysis, Database Systems, Data Analysis for Continuous Improvement, Deterministic Optimization
 - **M.S. Engineering Management**, University of Texas at Arlington, TX **Aug 08-May 10**
 - **B.S. Mechanical Engineering**, U.P. Technical University, India **Sept 02-May 07**
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PROFESSIONAL EXPERIENCE

Esri, Redlands, CA **July 17-Present**
Data Science Product Engineer, ArcGIS API for Python Apr 20 – Present
Data Science Intern, ArcGIS API for Python May 19 – Aug 19

- Assumed ownership of the ArcGIS notebooks gallery that showcases the capabilities of the API.
 - Author spatial machine learning projects by utilizing the ArcGIS ecosystem, open-source libraries such as *NumPy*, *Pandas*, *Matplotlib*, *Scikit-learn*, *PyTorch*, *Flask*, etc., and various machine learning, spatial modeling techniques to solve complex problems.
 - The projects are shipped as learning resources to customers and showcased on the API webpage.
- Reduced manual effort by creating automation to run various data science notebooks for seamless testing as part of API certification and continuous deployment.
- Create, maintain, and update unit tests and test assets to maintain high QA standards.
- Lead discussions and participate in the design and development of ArcGIS notebooks by working closely with cross-functional teams.
- Evangelized spatial data science by creating a practicum project for the M.S. Analytics students at Georgia Tech.
 - Designed a bootcamp to demonstrate the application of GIS, in collaboration with Product and Education teams.

Business Analyst, eCommerce July 17 – April 20

- *Collaborate with business partners and distributors on implementing a truly global digital ecommerce solution that enhances our customer's digital buying journey, is cost-effective, and ensures compliance.*
 - Designed dashboard to provide insights and trends on eCommerce sales to the management using Adobe Analytics; Defined metrics to understand the customer's shopping behavior in collaboration with the Analytics team.
 - Performed market research to identify solutions that can process payments and handle taxes globally.
 - Gathered, defined requirements, and created mock-ups for a Product and Pricelist Management system, and User Notification of products.
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Esurance, Rocklin, CA

April 13-July 17

Sr. Business Analyst, Product Implementation

Sept 14 – July 17

Business Analyst, Product Implementation

April 13 – Aug 14

- *Supported stakeholders to build and enhance insurance quoting and policy management programs for Auto Product and Compliance projects. Drove new and complex projects from business concept to IT delivery.*
 - Created business requirements documents (BRD), functional specifications and process flows defining detailed rules for new business initiatives and system enhancement projects.
 - Lead and conducted Joint Application Development (JAD) sessions and BRD reviews with cross-functional teams to develop, document, and confirm business requirements and supporting rules.
 - Managed and executed entire projects from start to finish including project management, data gathering and manipulation, problem solving, and communication of insights and recommendations.
 - Acted as a subject matter expert to assist technical teams throughout development and testing phases for high priority and complex projects.

Caterpillar Inc., Peoria, IL

May 11-April 13

Business Analyst, Global Emissions Regulatory Compliance

- *Lead a six-sigma effort on improving the reliability and accuracy of Engine Emissions data on Caterpillar's Technical Marketing Information website. This data was used by process partners, dealers and customers worldwide for import / export of engines and sale of used equipment.*
 - Identified gaps in the existing process by performing SWOT, gap and risk analysis.
 - Reverse engineered the existing process by working with cross-functional teams to create 'As-Is' process flows, proposed solutions and made recommendations for 'To-Be' process.
 - Achieved improved data accuracy, high customer satisfaction and reduced operating costs.

Buy Stones Online, Kissimmee, FL

May 10-April 11

Operations Business Analyst (Volunteer Position)

- *Performed detailed analysis to better understand customer needs, developed and evaluated business requirements; examined existing data and identified areas of improvement.*
 - Tracked and Analysed business trends, prepared reports based on sales history and projections.
 - Managed excess and obsolete inventories, made decisions to scrap or hold for future use.

CERTIFICATIONS

- **Deep Learning Specialization**, deeplearning.ai **May 20-Aug 20**
 - **Data Analytics / Big Data Certificate**, The University of Texas at Austin **July 16-May 17**
 - **SAS Certified Professional**, SAS **May 15-Oct 15**
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TECHNICAL SKILLS

- **Data Analysis** - Python, R, Flask, SQL, HTML, CSS, Tableau, Adobe Analytics, SAS, ArcGIS Pro, D3.js
 - **Business Analysis** - SharePoint, MS Visio, SnagIt, MS Office, SAP, Salesforce
 - **Project Management** - MS Project, Workfront, JIRA, Target Process
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