

Apratim Biswas

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DATA SCIENTIST | DATA ANALYST

I'm a Data Scientist and an experienced R&D Engineer with a background in Materials Engineering. I'm very passionate about working with complex datasets, developing models, and translating data into stories with actionable intelligence. Knowledgeable in supervised and unsupervised learning algorithms, I'm well-versed in a variety of analytical methodologies and frameworks. I'm also experienced in leading diverse teams, engaging internal and external stakeholders, and implementing process innovations.

TECHNICAL PROFICIENCIES

Platforms Linux | Windows | Google Cloud Platform | IBM Cloud | Google Colab

Tools Python | SQL | BigQuery | Tableau | Power BI | Pandas | Numpy | Scikit-Learn | Keras | TensorFlow | Microsoft Excel | Jupyter Lab | Matplotlib | Streamlit | Minitab | Consuming APIs | Git

Portfolio [Tableau Public](#) | [GitHub](#) | [Medium](#) | [Personal Webpage](#)

DATA SCIENCE PROJECTS

- Develop and deploy app to predict value of a single transaction in a retail marketing campaign of liquid milk products. App was deployed using Heroku's free tier and may take up to a minute to load the first time. [\[app link\]](#)
- Information retrieval from customer reviews on Amazon.
- Classify Reddit comment to identify originating subreddit.
- Identifying potential Toronto neighborhood(s) to open a profitable coffee shop.
- Motor vehicle collisions in New York City: An analysis of risk factors.
- Residential evictions in New York City: Exploratory data analysis.
- State-level participation in ACT and SAT: Exploratory data analysis.

Please visit [portfolio](#) for a brief outline of each project.

PROFESSIONAL EXPERIENCE

Data Science Immersive Fellow, General Assembly, Remote from DC (8/2020 to 11/2020)

Completed a full-time intensive Data Science program. Gained hands-on experience analyzing real-world big data sets and modeling them using various machine learning algorithms. I also added to my experience in exploratory data analysis and translating data to meaningful stories.

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Metallurgist and R&D Engineer, Gopher Resource, Tampa, FL (9/2012 to 3/2019)

Led corporate research and development, including creating mass balance models and furnace feeds to improve sustainability and enhance production models. Oversaw process development from lab scale through full production. Managed large plant-scale floor experiments and oversaw process engineering design and operational improvements. Facilitated root cause analysis. Supervised external process consultants.

- Designed and implemented process improvements that delivered 80% increase in selenium yield in lead and 90% decrease in selenium in discharged water.
- Developed and implemented new process to make solid waste 'slag' created in smelting process non-hazardous, resulting in >70% decrease in hazardous slag.
- Improved lead production outputs with root cause analysis on low production in special circumstances.
- Developed new procedures to collect and analyze accurate data from process design through implementation and maintenance.

Graduate Research Fellow, University of Florida, Gainesville, FL (8/2007 to 12/2011)

Conducted research on the development of processes to synthesize TiO₂-SiO₂ nanofibermats for use in the lunar environment, including synthesis and characteristic of nanofibers and filtration properties. Developed processes to make more flexible fibermats in comparison to ceramic fibers in use at the time. Taught undergraduates in materials science and engineering.

EDUCATION

Ph.D. in Materials Science and Engineering, 2012

University of Florida, Gainesville, FL

Research: Electrospun ceramic fibermats for filtrations application in lunar environment

B.S. in Metallurgy and Materials Engineering, 2007

Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, India

IBM Data Science Professional Certificate, 2020