Amrita Haldar, PhD

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Data Scientist with a background in material physics research, silane chemistry-based startup and 5+ experience in designing experiments and prioritizing research roadmaps. 9 patents, 8 papers published in refereed journals and 6 conference papers. Passionate about gleaning actionable insights from data.

SKILLS

Programming and Data Analysis: Python, Pandas, Numpy, SciPy, Scikit-learn, Web-scraping, BeautifulSoup
Data Visualization: Matplotlib, Seaborn, Tableau | *Database Mangement:* SQL, Bash, Git, MongoDB
Scalable Data Technologies: Apache Spark, AWS

DATA SCIENCE EXPERIENCE

Hybrid Meal Recommender System, Feastly, CA

- Partnered with *eatfeastly.com*, a multi-city platform which connects chefs with diners, to build a hybrid recommender captures signal from user-user similarity based collaborative recommender system and an item-item similarity based content recommender system to make a master list that maximizes the best matches.

Galvanize Case Studies: Price Prediction (Auction), Fraud Detection (Event), & Churn Retention (Ride Sharing)

EXPERIENCE

Post-Doctoral Fellow, University of Houston, Physics Dept., TX **June 2014 - December 2015**
Responsible for technology and application advancements within an R&D Innovation Group

- Adapted and combined various characterization techniques, developed innovative experimental approaches and improved methodologies for the treatment of experimental data. The work focused on developing these techniques to understand, qualify and optimize the how non-fluoro carbonated surface coatings interacted with water
- Processed, analyzed experimental data for data driven decisions. This included applying computer analysis and simulation programs to interpret experimental data and characterize materials and interfaces. Designed Matlab programs take data from profilometer and optical microscope-generated image date and provide analytics on underlying structures of deposition layers

Research Scientist, Integricote Inc., Houston, TX **June 2013 - June 2014**
Nano-technology startup focused on developing environment-friendly protective surface coatings

- Developed range of non-fluoro carbonated surface coatings which reduces the interaction of water with a wide range of materials including wood, masonry, fabrics and glass
- Solely responsible for pricing of the final coating product, creating quotes for different substrates and different customer use cases. Participated in customer conversations, identified customer pain points and prioritized research roadmap
- Startup was awarded the 2013 Goradia Innovation Grand Prize and the COMS Young Technology Award

Graduate Research Assistant, Physics Dept., University of Houston, TX **January 2008 - May 2013**

- Designed inkjet printing processes of active layers of solar cells, in the process implemented equipment improvements, optimized and designed new procedures. Lead to successful inkjet printing processes of organic layers for printed organic electronics.
- Created Matlab program to compute cell efficiency of solar devices from current-voltage data contained in over hundred text files, making it efficient to analyze the results

EDUCATION

- Galvanize (500+ hour intensive technical program) CA 2018
- PhD in Physics GPA 3.884 University of Houston, TX 2013
- Master's in Physics GPA 3.803 University of Houston, TX 2009

Best contribution award for Young Scientist: 12th Intl. Conf. on Organic Photonics, Trinity College, Ireland
Winner of 'Best Original Idea Award' at WomenHack - The All-Women Hackathon San Francisco 2018