Shivam Verma

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PROFILE

Early career analytics professional with a focus on machine learning, AI, and NLP. Passionate about marrying my ML and analytical skills to uncover insights and drive scalable business solutions

Specialties: Machine Learning, Data Visualization, Statistical Exploration, Predictive Analytics, Project Management

Technology: Python, R, SQL, MongoDB, Xgboost, Scikit-learn, TensorFlow, Adobe Analytics, Tableau, Git, Microsoft Excel

Certification: Amazon Web Services Certified Cloud Practitioner: H6Q4VQ7KGJVEQFGJ

EDUCATION

University of California, Davis	**San Francisco, CA**
Master of Science, Business Analytics	Aug. 2019 – Jun. 2020
Guru Gobind Singh Indraprastha University	**New Delhi, IND**
Bachelor of Technology, Electrical & Electronics Engineering	Aug. 2014 – May 2018

EXPERIENCE

Data Analyst (Project Manager), Practicum Project	**Oct. 2019 – Jun. 2020**
Air Safety Institute *(a non-profit committed to overall safety in general aviation)*	**San Francisco, CA**

- Led a team of 6 students to build a machine learning pipeline with an interactive search engine to catalogue, isolate, and cross analyze air-traffic incidents, hotspots, and overall trends using Python, SQL, and NLP
- Reduced manual touchpoints by more than 60% by automating risk/no-risk classification through synthesizing 52,000 data points from 30 years of narratives using topic modeling and word2vec to conceptualize word similarity
- Increased process optimization by 60% by automating data processing and implementing sentiment analysis tools to generate dashboards tracking safety and incident rates across continental United States

Co-Founder	**Aug. 2018 – May 2019**
Incedge & Co. *(one-stop ML and AI learning and networking platform, now defunct)*	**New Delhi, IND**

- Created a networking and professional development platform to connect non-technical with data professionals to expose and help people transition into data science, ML, and AI
- Spearheaded content and curriculum development with a focus on conceptualization and implementation of business development/marketing strategies
- Company published 15+ data science and ML articles resulting in more than 50k engagements across 4k individuals

PUBLICATIONS

- Verma, S. "**Score Improvement Using Backpropagation in Biometric Recognition System**" SIGMA 2018, Volume 1
  Proposed a 96% accurate novel algorithm for Biometric authentication based on ANN and backpropagation
- Verma, S. "**Fully Informed Particle Swarm Optimization for Solving Economic Load Dispatch**" ICRIEECE 2018
  Decreased annual generation cost by 3% through power demand allocation optimization using valve point effect

ACADEMIC PROJECTS

- Managed team of 4 to design dashboards and organizational tools to facilitate contact tracing through a live COVID-19 tracking website by scraping credible data sources in Python
- Analyzed, structured, and presented various proposals for improving marketing processes by comparing impact of sponsored product listings on eBay through web scraping in Python and building SQL database pipeline
- Developed classification tools achieving 85% recall score in diabetes diagnoses using ML algorithms through lightGBM and classification trees.
- Built EdTech GUI app on Python (PyQt) for data cleaning and visualization, reducing human intervention by 50%

AWARDS

- Reached top 20 out of 200 teams nationwide in the 2019 Adobe Analytics Challenge, by assessing Major League Baseball data to provide recommendations to enhance user experience and increase revenue