AMLA SRIVASTAVA

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EDUCATION

Columbia University, New York, NY Expected Dec 2017
M.S. in Data Science GPA: 4.0/4.0
Relevant courses: Machine Learning, Applied Machine Learning, Probability, Statistical Inference & Modeling, Exploratory Data Analysis & Visualization, Computer Systems, Algorithms, Storytelling with Data

PEC University of Technology, Chandigarh, India May 2015
B.Tech. in Computer Science & Engineering GPA: 9.4/10.0
Relevant courses: Neural Networks, Artificial Intelligence, Databases, Data Structures, Operating Systems, Software Engineering

WORK EXPERIENCE

The Hartford, Data Science Intern, Hartford, CT May 2017 - Present
- Developed an unconstrained loss model to improve personal auto Class Plans using H2O/Python; improved AUC score by 8%
- Designed a step-up model using gradient boosting to predict probability of step-up election by variable annuity policyholders, achieved an AUC score of 0.81
- Building a web application for recommending ILFs (Increased Limits Factors) to determine premium using R and R Shiny

McKinsey & Company, Jr. Research Analyst, Gurgaon, India Jun 2015 – Jun 2016
- Provided research and advisory services for the marketing/strategy office of a global Consumer Electronics client; analyzed consumer behavior and competitive market trends and developed branding/retail strategies

McKinsey & Company, Intern, Gurgaon, India Jan – Jul 2014
- Conducted a study on 'Text Mining'; performed resume classification, sentiment analysis, etc. using R, RapidMiner and Tropes
- Built a performance analysis model using MS Excel/VBA to classify client requests and to track team performance; achieved an accuracy of 94%

Aachen University of Applied Sciences, Intern, Germany Jun – Jul 2012
- Worked on the installation of SWORD software in UBUNTU and performed test runs for the Laboratory of Nuclear Techniques

DATA SCIENCE PROJECTS

Traffic complaint classification: Text analytics, *Applied Machine Learning project* Apr 2016
- Built a logistic regression model using scikit-learn to classify traffic complaints in Boston; used topic modeling (LDA, NMF) and clustering techniques to improve model; achieved a final accuracy of 92%

Predicting consumer behavior: Ensemble techniques, *Applied Machine Learning project* Mar 2016
- Predicted subscription rates for a bank's direct marketing campaign with an ensemble model using logistic regression and gradient boosted trees in scikit-learn; achieved an AUC score of 0.83

NYC Motor Vehicle Collisions: Visualizing accidents 2013-16, *Data Analysis & Visualization project* Mar - Apr 2016
- Analyzed vehicular collisions in New York City between 2013-16 to understand trends in accident types, seasonality, causes, and risks; created interactive visualizations using R, Tableau and CartoDB

Microsoft - CDSS Data Science Student Challenge, *Hackathon - 2nd Place Winner* Oct 2016
- Built a softmax regression model using Python and Microsoft Azure ML Studio to identify the most popular product in a Walmart store on a given day; enabled Walmart to identify substitutes

Visualizing character interactions in 'Love Actually', *Storytelling with Data project* Dec 2017
- Created several interactive visualizations to explore character interactions across scenes for the movie 'Love Actually' using R, D3.js, HTML and CSS

SCHOLASTIC ACHIEVEMENTS/POSITIONS OF RESPONSIBILITY

- TA for Introduction to Computing for Engineering/Applied Sciences (Python) (Jan 2017 – Present)
- Department Representative, Engineering Graduate Student Council (EGSC), Columbia University (Sep 2016 – May 2017)
- Student Head, Alumni Affairs Committee, PEC University of Technology, Chandigarh (Aug 2015 – May 2016)
- Recipient of SPDC and DASA scholarships by Government of India (Aug 2011 – May 2015)

SKILLS

- *Languages and Frameworks:* Python (scikit-learn, TensorFlow, keras, NumPy, Pandas, Matplotlib), H2O, R, R Shiny, D3.js, Tableau, SQL, VBA, Hadoop, CartoDB, RapidMiner, MS Office, C, C++, Java, PHP, HTML, CSS
- *Other:* U.S. citizen