

Robin Singh

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Education

- Post Graduate Diploma in Business Analytics, ISI Kolkata, IIT Kharagpur, IIM Calcutta, July 2015 – Present CGPA: 9.08/10
- Ranked 7 out of 51 students in the batch. 3-institute joint 2 year program in Data Science and Analytics
- B.Tech., Department of Mechanical Engineering, Indian Institute of Technology, Delhi, July 2010 – July 2014 CGPA: 8.56/10
- Received 2 awards on convocation for overall excellence in department and responsible student leadership

Professional Experience

- Internship, QuantOne Technologies Pvt. Ltd., Kolkata, India, 5 May 2016 – Current
- Using Deep Learning to identify most potential stocks and derivatives; MLP & RNN models in Python & Java
 - Implemented walk forward learning on historical data, back testing of strategy, integration with existing system
- Business Analyst, www.GulfTalent.com, Dubai, United Arab Emirates, August 2014 – July 2015
- Marketing – Published a research and extensive data analysis based report to understand recruitment and compensation trends in Gulf. Supplemented research with detailed interviews of 100+ HR and Top Managers
 - Product Development & Analytics - Owner of multiple product streams, responsible for enhancing the user experience with data-driven features based on quantitative analysis. Devised and Analyzed User Engagement metrics
 - Operations & Technology - Analyzed & implemented the internal phone call forwarding network, critical to sales team functioning. Managed integration of third party digital marketing tool designing, sending & analyzing mailshots
 - Sales Strategy - Strategized and Managed 2 annual sales promotions involving mailshots and segmented offers

Projects

Machine Learning Projects (Done from July 2015 to Present)

- Classification of rooftop images captured by Satellites (International Data Science Game 2016): Classification of rooftop images based on alignment using convolution Neural network and pre-trained ImageNet network
- Clustering and Topic Modeling of Financial News: Using constrained clustering methods and LDA for Topic Modeling for making trading decisions based on impact on return, volatility and liquidity
- Customer data analysis for Gurgaon based Startup www.Baxi.taxi: Developed predictive model for returning customers and clustering to identify customer segments to be used for differentiated offerings
- Event Retrieval from Twitter: Project aimed at identifying events from Tweets by popular tweet handles and extracting Time, Location attributes for events. Event information has potential applications in transport route and schedule planning. Used supervised classification of tweets, rule based time information extraction and geospatial corroboration to extract location information.
- Mining of large Telecom by-Grid Call Graph Data: Exploratory research project aimed at generating insights from geo-spatial telephone call graph data. Carried out anomaly detection, dependency analysis using complex network & ML tools. Utilized Hadoop for larger time window of analysis.
- Recommender System on Yahoo Billion Song Data: Used Hadoop to develop similarity matrix for collaborative filtering on User-Song review data. Also used approximation techniques to build computationally economical alternative models and compared performance.
- In-Hospital In-ICU Patient Mortality Prediction: Involved developing model to predict future mortality of patient from ICU and pre-ICU Laboratory Data.

Development Projects

- Interactive Java applet developed (Object Oriented Programming in Java Course Project): Developed interactive Java application using data streams of historic Earthquakes and Airports across the Globe.
- Android App Development (Basic Android App Development Course Project): Develop simple interface application storing frequently URLs for user. User can access URLs from the app and preferences saved and loaded on reopening

Programming Skills and Software

Python, R, Java, Eclipse, Deeplearning4j, Android Studio, MySQL, NLTK, SNAP, Theano, Keras, Hadoop Map Reduce, Github

Achievements and Awards

- Selected to be Student Volunteer for COMSNETS 2016 Conference held from 4-10 January Bangalore
- Secured II Position in CodeAthon mentored by Google Developers Bhubhaneshwar, Illuminati 2016 at IIT Kharagpur
- 1 of the 9 membered team to represent IITD at 'Kizuna Program' by Japan International Cooperation Centre, Japan

Publications

- Co-authored Case Study "Positioning Urzza : Launching a New Energy Drink", Ivey Publishing 2016 (9B16A009)
- Presented Research Paper on Cascade Refrigeration at Sustainable Energy Technologies Conference'13 Hong Kong