ABHILASH AWASTHI

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EXPERIENCE

- **Lead Data Scientist, Dunnhumby, Gurgaon   (May 2017 - Present)**
  - Working in Customer Engagement Science Team of Dunnhumby.
  - Worked on a project to predict propensity of a customer to buy certain product. After which relevant coupons/promotions can be given to customer to keep him engaged in the product. Hierarchical framework solution and various unsupervised & supervised machine learning techniques used.
  - Created product clustering and customer segments which were then passed as features to models. Various linear models and tree-based boosting methods were used to create propensity models at various levels.
  - Propensity model was depolyed for various global retailers and e-commerce markets.
  - Pyspark was used for data crunching and features generation. Python was used for models building.
  - Overviewed a project which converted above project into spark machine learning pipelines in scala.
  - Presently working on a deep learning project which builds customer product propensity model. The neural network is combination of LSTM and WaveNet.

- **Data Analyst, NEC Technologies India Pvt Ltd, Noida   (February 2015 – May 2017)**
  - Worked in Data Analytics team of NTI.
  - Worked on Retail Price Optimization Project. Predicted the sales of each product of the store using in-house analytics software and then used optimization strategies to decide on price of each product among given set of price candidates.
  - Worked on the data of one of the biggest ISP (Internet Service Provider) of Japan. Tried to analyze the reasons behind churn of their Internet users using clustering techniques.
  - Build a face detection module in Apache Spark. Code Link - https://github.com/AwasthiMaddy/Spark_Codes/tree/master/FaceDetection-in-Spark
  - Worked on building a Sentiment Analysis model and used that on preprocessed Amazon Reviews dataset.
  - Worked on a project to automate whole data science pipeline [automating data preprocessing, feature generation, feature selection, building model, finding optimal hyperparameters and result preparation].

- **Researcher, Tata Consultancy Services, Gurgaon   (July 2013 – October 2014)**
  - Worked in Text Mining team of TCS Innovation Labs, Gurgaon.
  - Worked on the data of US Automobile industry. Unstructured data was categorized into different events for different car models.
  - Worked on classification & sentiment analysis of news items/events using Weka API.
  - Investigated relationship between the verbs occurring in the events.
  - Build a regression model predicting unusual events of a car model in a month.

EDUCATION

o **M.Sc.(Mathematics), IIT Delhi (GPA 7.733/10)**   **2011-2013**
  Thesis: *Extremal Combinatorics*
  Supervisor: *Dr. Amitabha Tripathi*

o **B.Sc.(Mathematics), Hansraj College, Delhi University (Marks% 92.5)**   **2008-2011**
  Got third position in the University of Delhi and in the Hansraj College.

o **XIIth CBSE , Kendriya Vidyalaya, Shalimar Bagh, Delhi (Marks% 93.2)**   **2008**
  Second rank in school in the XIIth standard.

o **Xth CBSE , Joseph & Mary Public School, Delhi (Marks% 91.8)**   **2006**
  School topper in the Xth standard.

TECHNICAL SKILLS & INTERESTS

- **Programming languages**:
    o Python
    o Java, C++, SQL
- **Big Data Tools**:
    o PySpark
    o Hadoop & its ecosystem tools (Hive, Sqoop)
- **Python Data Science Packages**:
    o Numpy, pandas, scipy
    o Scikit-learn, xgboost, lightgbm
    o Matplotlib, seaborn
- **Deep Learning Tools/Packages**:
    o TensorFlow
    o Keras
- Also worked on: MATLAB, Weka, Gephi
- **Interests**: Machine Learning, Deep Learning, Big Data Analytics, Statistics

OTHER INTERESTS

- **Participating in Data Science Competitions**
  (Kaggle username - Abhilash Awasthi
    Kaggle Profile Link - https://www.kaggle.com/abhilashawasthi
    Kaggle Rank & Title - 371 [Competitions Master])
- Listening Music, Watching TV Shows & Cricket.