

HARSH B. GUPTA

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EDUCATION

The University of Texas at Dallas <i>M.S., Business Analytics (Data Science)</i>	May 2019 GPA 3.7
University of Pune, India <i>B.Eng., Electronics and Telecommunications</i>	May 2013 GPA 3.5

BUSINESS EXPERIENCE

Data Scientist Intern – IHS Markit - Houston	Jun 2018 – Aug 2018
<ul style="list-style-type: none">▪ Machine Learning: Trained models in Python to automate manual data parsing process, achieved >96% accuracy rate by using random forest, MLP, DNN, hyperparameter tuning with grid search and cross-validation, resulting in time reduction by 88%▪ Data Cleaning: Transformed and cleansed unstructured data using Python to conform to the business requirements▪ BI Dashboards: Developed dynamic and interactive dashboards in Power BI to provide tracking of key performance indicators▪ Recommendations: Conceptualized and presented Q&A upvoting dashboard idea to the CEO to improve employee engagement by up to 8 times	
Research Analyst – MarketsandMarkets - India	Aug 2013 – Jul 2017
<ul style="list-style-type: none">▪ Forecasting: Estimated and forecasted the sales revenues and growth rates of MICRO and MACRO technology markets▪ Business Intelligence: Authored 15+ business intelligence reports, generating over USD 5.8 million in revenue for clients▪ Data Collection: Developed database to identify market economics, trends, new revenue sources, and growth opportunities using data from Hoovers, Factiva, Bloomberg, and Reuters databases and interviews with 100+ C-level executives▪ Strategize: Performed competitor benchmarking analysis and strategized on new market entry and product enhancement	

HACKATHONS AND COMPETITIONS *(more at www.gupta-harsh.com)*

UNT 2019 Hackathon – Sign Language Interpreter - Winner [YouTube]
<ul style="list-style-type: none">▪ Implemented a sign language interpreter to help deaf people with their daily communication needs using Deep Learning▪ Created a dataset of over 105k greyscale images of 44 gestures in American Sign Language using OpenCV library in Python▪ Trained a convolutional neural network using Keras on the images, added 6 different convolutional and pooling layers, to predict ASL hand gestures in live video feed with an accuracy of 97%
UTA Analytics Competition – Product Sales Prediction – Winner
<ul style="list-style-type: none">▪ Analyzed 200k+ customer reviews of products using Natural Language Processing to understand the impact of customer sentiments on 37k+ Pier1 home décor products▪ Designed a model to predict the success of product with an accuracy of 88%, using SVM, decision tree and random forest▪ Visualized the product data in Tableau to analyze the impact of various attributes on sales and profits of the products
Texas Instruments Challenge – Intern Survey Prediction – Second Runner Up
<ul style="list-style-type: none">▪ Used logistic regression to build prediction model for conversion of interns based on the intern reviews for Texas Instruments▪ Examined qualitative survey data using text and word frequency analysis techniques to diagnose top sentiments of interns▪ Recommended 6 organizational and 3 survey level action points to increase full-time offer acceptance rate by 35%

SKILLS

Technical: Python, R, SQL, SAS, Spark, Hive, Hadoop, Sqoop, SPSS, Power BI, Tableau, Spotfire, QlikView, ETL, AWS, Azure, GCP, Google Analytics, Advanced Excel (Pivot Table, VLOOKUP, Macros), TensorFlow, NumPy, pandas, scikit-learn, matplotlib, ggplot, HTML, Data Mining, Data Wrangling, Clustering, Statistical Modeling, Quantitative Analysis

Relevant Coursework: Statistics • Machine Learning • Econometrics • Predictive Analytics • Prescriptive Analytics • Big Data Business Data Warehousing • Business Analytics with R • Natural Language Processing NLP • Programming for Data Science

ORGANIZATIONS

- **Data Consultant** | Statistics without Borders
- **Leader** | JSOM Dean's Council
- **Core Member** | Data Science Club
- **Blood Donor Ambassador** | American Red Cross UTD
- **Member** | JSOM Tuesday Toastmaster

AWARDS

- **Winner** | UNT Hackathon | 2019
- **Winner** | UTA-Pier1 Analytics Challenge | 2019
- **2nd Prize** | Intelligence Analytics Challenge | 2018
- **3rd Prize** | Texas Instruments Analytics Challenge | 2017
- **Star Employee Award** | MarketsandMarkets | 2016