

# Vinay Mishra

202-677-1277; vkm170130@utdallas.edu

<https://www.linkedin.com/in/vinay-mishra-46a893155/>

## EDUCATION

### The University of Texas at Dallas

M.S., Business Analytics; Data Science, High Distinction Scholar, Dean's Excellence Scholarship

May 2019

**GPA 3.9**

## CERTIFICATIONS & TECHNICAL SKILLS

Analysis Tools: Tableau, MS Excel, SAP BO

Programming: Python, R, SAS

Big Data: Spark, MapReduce, Hive, Pig, Kafka, Impala

Databases: Oracle, MS SQL Server, MySQL, Cassandra, HBASE, DynamoDB, MongoDB, PostgreSQL

## BUSINESS EXPERIENCE

### Hi-Tech Engineering Pvt Ltd, India

August 2014 – July 2017

#### Data Analyst

- Fulfilled a critical role building Machine Learning models for clients of this market research organization, leveraging advanced data mining algorithms to identify key variables impacting sales. Collaborated with data scientists and machine learning engineers to develop next-generation data integration capabilities that led to an 18% increase in revenue.
- Applied a random forest algorithm to assist in the identification of loyal customers and develop accurate forecasts of sales and propensity to purchase recommended products.
- Used Machine Learning algorithms to formulate dynamic pricing models that led to a 7% increase in profit margin. Additionally, developed a dashboard providing insight into sales restraints, lowering overhead charges by 4% and sparking increased revenue.
- Administered SQL scripts that created and populated a data warehouse that served as the central source of information for daily reports across multiple departments and wrote advanced analytics SQL queries including Windows functions to perform in-depth analysis for identifying opportunities and developing proposals.
- Spearheaded Spark migration from version 1.4 to version 2.0 updated and modified deprecated RDD-based APIs to DataFrames-based APIs in Spark's MLlib based projects.

### Tech Mahindra, India

September 2013– July 2014

#### Associate Software Engineer

- Excelled in a series of engagements with clients of this leading IT consulting corporation, identifying and resolving software errors reported by clients or discovered during testing.
- Credited with developing new OLAP cubes that aggregated AT&T customer complaint information and developed ETL packages using Microsoft SSIS.

## ACADEMIC PROJECT

### Deep Learning

December 2018

- Developed a CNN model that classifies dog's breed, using 20,000 labelled images into 120 classes in pytorch.
- Created a recommender system on Netflix prize dataset to recommend movies based on history.

### Machine Learning and Big Data

August 2018

- Stock price prediction using time-series model in sklearn, prophet and scrapy
- Analyzed Consumer complaint Database using HDFS, Spark, Hive on AWS EMR cluster.
- Implemented ML algorithms using Spark MLlib on student performance dataset to predict final letter grades.

## ADDITIONAL INFORMATION

*Eligibility:* Eligible to work in the U.S. for full-time employment for 36 months without sponsorship