KARAN CHHABRA

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SUMMARY

Data Analytics professional with over 2 years of experience in Predictive Modeling, Deep Learning, and Data Visualization. Creative data driven problem solver with strong skills in mathematics, statistical analysis and passion for Data Science

EDUCATION

University of Illinois at Urbana-Champaign — Champaign, IL
MS in Information Management, ***GPA: 4.0/4.0*** — Aug 2019 – Dec 2020

Devi Ahilya University — Indore, India
Master of Business Administration, ***GPA: 3.7/4.0*** — Jun 2014 – May 2016
Bachelor of Business Administration, ***GPA: 3.7/4.0*** — Jun 2011 – May 2014

WORK EXPERIENCE

Lotus Enterprises — Indore, India
Data Analyst — Dec 2016 – May 2019

- Collaborated with leadership team for designing Business Metrics to track financial and operation performance
- Performed ETL (Extract, Transform, Load) to source data from multiple schemas and create new tables using SQL
- Automated weekly and monthly Descriptive Analytics reports, while bug fixing and validating data for tracking KPIs
- Designed interactive Power BI Dashboards for team to monitor and analyze trends and KPIs through Visual Key
- Designed tool to automate cost calculation for Ready-to-Sell Inventory based on FIFO method using Python
- Performed various analysis to study order gap, root-cause issues, and learn about market price and sales trends

Impact Analytics — Bangalore, India
Data Scientist (Intern) — Sep 2016 – Oct 2016

- Established 'Look-Alikes' to existing products, based on similar attributes and price ranges using Hierarchical Clustering. Forecasted Demand for In-Store and Online Jewelry products (new and old SKUs), used Time Series ARIMA models in R
- How India can improve its performance in Olympics: Led Company's portfolio project, performed Exploratory Data Analysis and established causal relationship between local factors and win/loss, also identified strong correlation between country's GDP and number of medals won in games. Presented recommendations using Tableau Dashboard

ACADEMIC PROJECTS

Neural Style Transfer: Implemented transfer learning to generate novel artistic images by combing content image with Style Image; using VGG-19 pre-trained neural network algorithm on ImageNet dataset

Spam Detector: Preprocessed email samples, normalized text, removed stop words then used Porter's Stemming to extract root words; deployed Bag of Words using Word Vectorizer; achieved 95% accuracy using Support Vector Machine

Trigger Word Detection: Build Uni-directional Recurrent Neural Network (RNN) to detect trigger audio signal (like Alexa, Hey Google) in the speech; used 4 layers (1D Convolution layer, 2 GRU layers, 1 Dense-Sigmoid layer)

Movie Recommendation System: Developed content-based filtering across 18 genre attributes from Movie Lens dataset, used hierarchical clustering algorithm with Euclidean distance to create clusters of similar movies

Maximizing Portfolio: Built business decision model to maximize profits, by suggesting stocks to be sold from current portfolio within the scope of given constraints using linear optimization techniques in Excel

TECHNICAL SKILLS

Deep Learning & NLP: CNN, RNN, Text Mining, Sentiment Analysis, Topic Modeling, Batch Normalization, Adam, Dropout
Machine Learning: Regressions, SVM, Tree Ensembles, K-Means Clustering, kNN, Feature Engineering, LASSO, Ridge, PCA
Tools & Technologies: R, Python, SQL, MATLAB, Excel, C, Power BI, Tableau, Relational Databases, Business Intelligence
Statistics: Hypothesis Testing, Sampling, A/B Testing, Quantitative Analysis, Forecasting, Gradient Descent, Bootstrapping

ONLINE COURSE CERTIFICATIONS

- **Deep Learning Specialization**, DeepLearning.ai
- **Machine Learning**, Stanford University
- **Fat Chance: Probability**, Harvard University
- **Statistical Learning,** Stanford University
- **CS50 Introduction to Computer Science,** Harvard University
- **Applied Machine Learning in Python**, University of Michigan
- **R Programming**, John Hopkins University
- **The Analytics Edge,** Massachusetts Institute of Technology