Deepika Gupta

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# **EXPERIENCE**

**NLP Consultant | EXL Service | June 2019 – Present**

* Created a deep learning framework for text classification
* Created an automated system to pre-process, load and train various neural nets on text data
* Developed an automatic hyper parameter tuning of models with accuracy ranging from 70-98% on various datasets using Gaussian optimization
* Integrated with sacred and Omniboard to keep a track of each experiment using MongoDB to manage the database

**Data Scientist | Ex2 India Pvt. Ltd. | Sep 2016 – May 2019**

* Bot manager integrated with machine learning to detect internet robots
* Developed an automated system to classify internet robots from IIS log files
* Trained ensemble and tree-based machine learning models to achieve state-of-the-art results
* Developed an internal analytics platform for our clients’ website using Django Framework
* Hands-on advanced proficiency in handling and analysing large datasets
* Designed a personalized recommendation system to increase conversion rate for a real estate company based out of the USA
* Trained machine learning models to predict user behaviour from customers’ web journey
* Developed an explicit scoring system to rate the communities, builders and homes in the USA
* Applied deep collaborative filtering to find similar homes and users
* Data analysis of various products’ performances
* Scraped data from websites and their APIs for analysis using Python, Excel and statistical modeling
* Extracted meaningful facts from the data to make better business decisions
* Provided modelling of structured and unstructured data to determine strategies to reduce market risks and capture market opportunities

# CORE COMPETENCIES

* **Natural Language Processing: -** Preprocessing (tokenization, stemming, lemmatization, stopwords removal, etc.), Word Embeddings, LSA, LDA, Libraries: spaCy, NLTK, Genism, Torchtext, hyperopt, skopt, ignite, sacred etc.
* **Machine Learning & Deep Learning: -** Supervised and unsupervised learning (Algorithms: Logistics Regression, Linear Regression, Tree algorithms, Naive Bayes, Nearest Neighbors, Gradient Boosting Machine, KMeans clustering, etc.), Neural Nets (CNNs, RNNs, LSTM, MLPs)
* **Skills: -** Data cleaning, feature engineering, feature scaling, dimensionality reduction, cross validation, Gaussian optimization, model evaluation, Mathematics, Statistics & Probability
* **Programming Languages: -** **Python:** Data analysis (NumPy, pandas, datetime, math), web scraping (requests, bs4, selenium), regex (re), visualization (pandas, matplotlib, seaborn), machine learning (scikit-learn, keras), Deep Learning (PyTorch, Torchtext, sacred)
* **Databases:**- SQLite, MongoDB

# ACADEMIC profile

**B. Sc. (Hons.) in Mathematics | Lady Shri Ram College for Women, Delhi University | June 2013 – June 2016**

* Achieved 70.16%
* **Internships: -** Business Development Intern at Guna Organics (March 2015 – August 2015) and Project Manager of Create to Inspire School Program, Microsoft (June 2015 – August 2015)

# Positions of responsibilities & extra curricular

* **Member of Table-Tennis-** Under National Sports Organization (2014-2016)
* **Volunteered at Four Steps-** an NGO for mentally Impaired Children- Under National Service Scheme (2013-2016)
* **Coordinator of Abhivyakti-** the Creative Writing Society & **Core-team member of Prakriti-** The Environment Society of LSR
* **Awarded Inspire Scholarship** by Department of Science and Technology, Government of India and **KPMG Scholarship** for excellent performance in college activities
* **Won many Science contents** at the regional and national level
* **Awarded ‘The Best Hindi Article of the Year- 2015’** at Lady Shri Ram College for Women, New Delhi