# SANDEEP TIMILSINA

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## PROFESSIONAL EXPERIENCE

**DELL TECHNOLOGIES**                                                      **12/2019 – present**
**Graduate Data Science Consultant**                                                      **Tempe, AZ**

- Forecasted Dell devices influx for schools registered on Summer Clinics Program using predictive analysis, enhancing customer satisfaction score by 15%.
- Developed a platform for senior management to track and analyze trends in Power BI, reducing the Estimated Time of Repair (ETR) for the devices by 31%.
- Optimized a scheduling model by 10% using bin-packing resource allocation algorithm in Python for the efficient repair process.
  **Advanced skills:** Data Science, Data Analysis, Business Intelligence, Algorithms, Python, Power BI, Tableau

**BANK OF AMERICA**                                                      **07/2013 – 06/2019**
**Senior Software Engineer**                                                      **Hyderabad, India**

- Led the migration of 3 projects from Python 2 to Python 3 and Project Management application from Python based UI to REACT based UI.
- Built a reporting analytics framework to accelerate the development of new reports by 50%.
- Enhanced database abstraction and Object Relational Mapping to reduce project time by 2 weeks by applying SQL alchemy abstraction layer.
- Created a rules engine to reduce the average time spent by 38% using Python and decision trees for organized and efficient data validation processes.
  **Advanced skills:** Software Engineering, Business Intelligence, Python, SQL, Data Structures, React

## PROJECTS

**Book Recommendation System (Python 2020)**

- Designed a book recommendation system using social network analysis to populate the top 5 relevant books from Amazon Product Co-Purchase data. **(Github)**

**Fake Job Prediction (Python | Beautiful Soup| Pandas| NLP |Naive Bayes| BERT | 2020)**

- Built a text classification model to enhance context-based search and predict fake job postings with an accuracy of 98%. **(Github)**
- Web Scrapped Indeed.com job portal to get the new jobs data for testing the trained model performance.

**Car Selling Price Prediction (Python | 2020)**

- Developed machine learning model to predict the selling price of a car with data from CarDekho.com and deployed it using Heroku.**(Car Price Calculator Demo, Github)**

**Data Warehouse, Dimensional Modelling | Schema Design (2019)**

- Led a 4-member team to build an OLAP Star Schema Model from an Operational Database for a Trading Company, improving query performance and schema Simplicity.
- Performed OLAP cube operations for analysis and insights.

## AWARDS

- **Diamond award** for 1st Prize in Internal Hackathon of Bank of America for developing XML Comparator (2014)
- **Gold awards** for migration of UI from Python to React and Dependency Tracker development (2018-19 Bank of America)

## SKILLS

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|---|---|
| **Programming Languages:** | Python, R, SQL, Spark, C++, Java |
| **Databases & Platforms:** | MySQL, AWS (S3, EC2, EMR), MongoDB, HDFS, Docker, Elastic Search |
| **Visualization Tools:** | PowerBI, Tableau |
| **Machine Learning:** | PyTorch, Scikit-learn, Scipy, Pandas, NumPy |
| **Natural Language Processing:** | BERT, Transformers, LSTM, Attention Models, RNN |
| **Web Technologies:** | XML, JavaScript, HTML5, CSS3, Bootstrap |

## EDUCATION

**W.P. Carey School of Business, Arizona State University**                                                      **August 2019 - May 2020**
Master of Science, Business Analytics                                                      Tempe, USA

**National Institute of Technology, Warangal**                                                      **July 2009 - April 2013**
Bachelor of Technology, Computer Science and Engineering                                                      Warangal, India