

# Nilambari Chhagan Sonawane

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## SUMMARY

Graduate student with 2+ years of proven success in database and analytics tools such as SQL, Python and Tableau, along with cross-functional team collaboration, supported by a blend of strong problem solving and time management skills.

## EDUCATION

### Master's in Information System Management

Arizona State University, Tempe, USA

Aug 2019 – Jul 2020

### Bachelor of Engineering in Electronics and Telecommunications

Savitribai Phule Pune University, India

Aug 2013 – Jul 2017

## TECHNICAL SKILLS

**Languages:** SQL, Python, R, SAP ABAP

**Visualization:** Tableau, Power BI, Qlik sense, Matplotlib, Plotly

**Database:** Oracle, PL/SQL, MS SQL, MySQL, SAP ECC

**ML Tools:** Pandas, NumPy, SciPy, Scikit-learn, Seaborn, TensorFlow

**ML Expertise:** Logistic Regression, Linear regression, KNN, SVM, Random Forest, Neural Network, CNN, LSTM, Statistical analysis

**Others:** SAP FI, SAP PI, Image Processing, AWS, RPA Automation, Microsoft Azure, VDI tool, Excel, Data Mining

## WORK EXPERIENCE

### Associate Software Engineer (Data Science-focused), Accenture

Oct 2017 – July 2019

- Automated extraction of geo-spatial coordinates, of hospitals in USA to reduce manual efforts by plotting them on interactive maps.
- Extracted, cleaned, and analyzed the historical data using python libraries such as NumPy, Pandas, Matplotlib.
- Created interactive Tableau dashboards to visualize and provide better insights to the data than it was previously observed.
- Used the visualization tools to aid in the decision making of the Strategy team and Automation team on a weekly basis.
- Worked on prototyping with the onshore team and ensured model is ported into the product successfully.
- Key Technologies: Python, Folium, Pandas, Plotly, Basemap, SQL, Tableau.

### Data Science Intern, Qualden Technologies

Jun 2017 – Oct 2017

- Increased efficiency of the application by 25% by optimizing SQL queries in classical, interactive and ALV reports.
- Automated 20% highly repetitive jobs of technologies like Mainframe, Siebel, SAP, moveIT, and papyrus by surface automation using the Robotic Process Automation tool, which reduced daily manual efforts of 120 hours.
- Key Technologies: SQL, Automation, SAP ABAP.

## ACADEMIC EXPERIENCE

### A Comic Buff Got Happier

[Pandas, Matplotlib, Seaborn]

- Explored and aggregated data from Marvel's 100k subreddit comments, rating & reviews, filtered and pre-processed data using Python libraries such as Pandas, Matplotlib, and Seaborn.
- Increased revenue & satisfied comic fans by comic to cinematic adaption, using LDA topic modeling algorithm & sentiment analysis.

### Airbnb Yield Prediction for Hosts

[AWS, NumPy, Scikit Learn]

- Obtained data points that affects the price of a listing in New York region by extracting and analyzing the customer data.
- Trained and evaluated the model to predict gross annual revenue by Random Forest Regressor and Logistic Regressor. Also, provided valuable insights to the new host while listing their room.
- Optimized the model quality by tuning the hyperparameters eventually deployed the statistical machine learning model on AWS.

### Movie Recommender System

[Matrix factorization, NLTK, TF/IDF]

- Grabbed TMDb movie dataset from Kaggle, performed EDA and visualization using Natural Language libraries in Python.
- Implemented content-based recommender using TF & IDF, collaborative filtering using Matrix factorization, and hybrid model recommender system using Natural Language Toolkit.

### Credit Card Fraud Detection

[R, Logistic Regression]

- Explored the data for credit card transactions and performed data manipulation and data modelling on the same.
- Built a classifier that can detect credit card fraudulent transactions by fitting it to a Logistic Regression model.

### Nintendo Video Games Global Sales

[Tableau, Statistics]

- Designed an interactive dashboard on Tableau, to understand the story of video sales behavior across years.
- Identified outliers & predicted planning for upcoming years investment in the genre, increased the future market share & sales by 25%.