

Sowmya Narukullapati

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Professional Summary:

- Data Scientist with 3 years of hands-on experience with expertise in Descriptive, Inquisitive, Predictive and Prescriptive analytics.
- Strong computational background (complimented by Statistics/Math/Algorithmic expertise), a healthy portfolio of projects dealing with Big Data, solid understanding of machine learning algorithms, and with a love for finding meaning in multiple mixed, varied, and inconsistent data sets.
- Well versed in Linear/non-linear, regression and classification modeling predictive algorithms.
- Extracted, cleansed and analyzed complex data from multiple sources to find useful insights via data analytics using Big data Hadoop, Hive, SQL.
- Team player with logical reasoning ability, coordination and interpersonal skills. Excellent written and communication skills.
- Proficient in SQL and programming languages like C, C++, Java, Python.

Education Qualification:

Master of Engineering in Computer Science

August 2021

University of Cincinnati, Cincinnati, USA

(3.6,

Currently Pursuing)

Concentrations: Machine Learning, Information Retrieval, Database Management.

Bachelor of Technology in Computer Science and Engineering

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2014 – May 2018 **Vasireddy Venkatadri Institute of Technology**, India

3.7/4.0

Technical Skills:

Statistics/Machine Learning	Univariate/Multivariate regression, Lasso, Ridge, Decision trees, Ensemble methods - Random forests, Gradient Boosting, ANOVA, Supervised learning, Unsupervised learning, Principal component analysis, K-Means, Hierarchical clustering, Bayesian learning, Support Vector Machine(SVM),Neural Networks, Time series Analysis, Feature selection, Recommender systems
Statistics / M L Programming	Python, R, MATLAB, Excel
Databases/ETL/Query	Teradata, SQL Server, Oracle, Google cloud Platform
Visualization	Tableau, ggplot2, Power BI
Others	Hadoop, Hive, Spark, GitHub, Jira, Agile, Data Robot, MLStudio, Azure

Work Experience:

Data Scientist 2019 - Jul 2021 Infosys, India	Jan
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- Identified the data sources for the analysis and extracted the data from database using **SQL** queries and to prepare the data to build machine learning models.
- Performed Data Profiling to learn about data and merge data from multiple data sources.
- Performed feature engineering to create new features.
- Worked on all phases of data mining, data cleaning, data collection, developing models, validation, visualization and analysis.
- Built clustering models to identify the customer segments, based on various features such as length of the contract, demographics, geographic data, and RFM metrics (Recency, Frequency, Monetary) etc. This segmentation can be aided by various business teams to identify potential customers.
- Built classification models like Random forest, XGBoost, Decision trees, Logistic regression.
- Evaluated model's performance using various approaches (confusion metrics, ROC curve, Precision recall curve).
- Used **python** programming language to build the machine learning models.
- Presented analytical insights to varying levels of management with technical and non-technical backgrounds.
- Built visualizations for the business teams in Tableau.

Infosys, Mysore, India 2018 - Dec 2018 Systems Engineer Trainee	Jun
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- Trained in Computer technology at Infosys Leader Institute, Mysore, India.
- Also, underwent training in OOPs, Oracle PL/SQL, Unix, Java, C++, C, Python.
- Got well versed in web technologies like HTML, JavaScript, CSS, JSP.

Academic Projects:

Text Summarizing Bot: Developed an application that is capable of summarizing a given text body by utilizing a smart algorithm, extracting and selecting individual words or phrases to "tag" a document, and creating a short paragraph by selecting whole sentences using Natural Language Processing techniques. The aim of the proposed model is to save time and effort in summarizing.

Student Professor Advisor Information Kiosk: Web application that acts as a communication portal between the students and professors, with facilities like registering, login in, viewing information posted by the professors, and requesting professors for counseling. Used NetBeans IDE, MySQL, and CSS3 Menu Creator.

Payroll management system: Developed a desktop application which autonomously prepares balance sheets, depending upon the designation, tax deductions and rate per day using C++ as a programming language.