

SUNEETHI (S) FORD

DATA SCIENTIST

ABOUT ME

A critical thinker with cancer research background and experience in hypothesis testing, problem solving and, data analysis and presentation. Throughout my experience in scientific research and data science, I have been driven by a passion for problem solving through data analysis. What makes data interesting to me is its power to provide surprising insights that are hard to refute.

GET IN TOUCH



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EDUCATION

Nashville Software School | 2019 - 2020

Data Science Bootcamp

University of Toledo

Ph.D. Biomedical Sciences

Manipal University, India

M.Sc. Medical Biochemistry

SKILLS/TECHNOLOGIES

Python

R

PostgreSQL

Neo4j

Git, Github

Web Scraping

Data Visualization:

R Shiny Web App

Matplotlib

ggplot2

Plotly

Seaborn

Machine Learning:

Supervised and Unsupervised learning

EXPERIENCE

Nashville Software School

DATA SCIENCE STUDENT

Nashville, Tennessee

SEPT 2019 - PRESENT

Extracted, transformed and analyzed data, and provided predictions using machine learning in individual and group projects and communicated the findings through data visualization tools and interactive dashboard

INDIVIDUAL PROJECTS

Health Status in Tennessee Counties

- Explored and analyzed the health measures using **R** in Tennessee counties
- Utilized **R Shiny Web App, ggplot2 and plotly** to show there is no correlation between health and crime rates, and rural and urban counties in Tennessee

suneethi.shinyapps.io/Health_Measures_TNCounties/

Prediction of Side Effects from Drug-Drug Interaction

- Used **Python, classification models** and chemical substructure profiles to predict side effects and prediction accuracy from drug-drug interaction

GROUP PROJECTS

Analysis of Medicare Data for Hospital Referral

- Used **SQL, Python and Seaborn** to identify the most common hospitals to which the physicians refer their patients to, in Tennessee

Factors Affecting students Graduation Rate in Tennessee

- Analyzed the correlation between student graduation rate and different socio-economic factors in Tennessee schools using **R**
- Identified and presented the negative correlation between economically disadvantaged students and graduation rates
- Data visualization tools used : **ggplot2** and **Plotly**

Historical Earthquake Data Analysis

- Led a team of 3 to analyze historic earthquake data
- Used **web scraping** to extract data from html webpage and Identified the countries with earthquakes with high magnitude and death rate using **Python and Matplotlib** and showed earthquakes are less common in Nashville and Tennessee

Computer Cluster Memory Usage and Job Efficiency

- Data preprocessed and analyzed using **Python**
- Matplotlib, Seaborn and Plotly used to depict the users running large number of jobs with less computing time and those who optimized their allocated memory usage

Other Projects:

- NSS hackathon - Dollar general grant application analysis
- Presented the missed trash pick-up analysis to Metro Nashville

Vanderbilt University

RESEARCH FELLOW

Nashville, Tennessee

2012 - 2016

Research and Data Analysis

- Analyzed sequencing data to study the drug effects on cancer cells
- Analyzed the data from different assays to choose drugs that prevent cancer cell growth

EXPERIENCE CONTINUED

Vanderbilt University

Nashville, Tennessee

Communication – Business Case Competitions

- TechVenture Challenge, Vanderbilt University, 2017; Provided financial analysis for new technology commercialization
- Licensing Evaluator, Harvard global case competition, 2017; Analyzed cost and profit of licensing a drug
- Chief communication officer, IXL case competition, 2016; Proposed product design and its critical analysis, risk assessment and business opportunity map. Awarded first place and cash prize of 4000\$ per team of 6
- Strategy Officer, Tuft's New England case competition, 2016; Proposed business strategies to improve R&D efficiency. Third place with cash prize of 500\$ per team of 4

Professional Development

- Preflight and Postflight entrepreneurship course, The Wondr'y, Vanderbilt University, Spring 2017
- Business and management principles for scientists, Vanderbilt University, Spring 2017; Proposed solutions as a team of 3 to reduce cost and improve ordering of lab supplies for Vanderbilt University core lab
- Summer intensive course on "Entrepreneurship and Technology Commercialization", Vanderbilt University, Summer 2016; Proposed technology commercialization plan and presented business model for microscope technology
- Technology commercialization workshop, Vanderbilt University, Fall 2016
- Biomedical research and media workshop, Vanderbilt University, Fall 2016
- Mentored high school, graduate and visiting students through training on experimental design, assays, data analysis, interpretation and visualization, and data storytelling
- Authored research highlights for Vanderbilt newsletters

University of Toledo

Toledo, Ohio

PH.D. STUDENT AND RESEARCH ASSISTANT

2008 – 2012

Research and Data Analysis

- Defined research problem based on existing research data and provided a research hypothesis
- Performed assays to screen 40 proteins and analyzed the assay data to prove the research hypothesis

Jubilant Biosys Limited

Bangalore, India

Business Development Associate

2006 – 2008

- Identified prospective clients and added an average of 4 new clients per year
- Designed marketing materials and facilitated product demo for the bioinformatics team

Scientist

2005 – 2006

- Quality check of the contents of the drug database
- One amongst 8 selected from team of 75 members to create standard operating procedure for the project
- Trained 30 new recruits and led a team of 20 to improve data accuracy from 40% to 80% in 4 months

VOLUNTEER

- Planning committee member, 2016 annual career symposium, Vanderbilt University
- Writer, Vanderbilt newsletter; 2013 – Present
- Risk Assessment Officer, Council of Biomedical Graduate Students, University of Toledo, 2009 – 2011
- Treasurer, Karate club, University of Toledo, 2010–2012
- Graduate student representative, Manipal University, India, 2002 – 2004