

# 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/](http://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