

Neha Satish

770-756-4326 • norisa@umich.edu • github.com/norisa118

EDUCATION

University of Michigan, Ann Arbor

Bachelors of Science in Engineering in Computer Science → Dean's List 2021, University Honors 2020/1 June, 2022

Relevant Coursework: Discrete Math, Programming and Intro to Data Structures, Data Structures and Algorithms, Computer Organization, Foundations of Computer Science, Data Analysis and Visualization for Geoscientists

Relevant Course Projects: Image processing, Euchre (Object Oriented), Web backend, Machine Learning Classification, Maze Exploration, Assembler, Simulator, Linker, Pipeline Simulator, Cache Simulator

WORK EXPERIENCE

PD Data Analytics Intern | Ford Motor Co. | Dearborn, MI

May 2021 - July 2021

- Designed and developed a web app that provides direct, visualized data to product dev teams using Youtube and Twitter APIs
- Quantified customer experience using BERT based sentiment analysis from social media comments and performed n-gram analysis to live-track top relevant keywords for *any* product
- Remodeled data-driven development by introducing management to data ingestion components from the reservoir, and used Hive queries to generate aggregated data and display them on business intelligence tools

Engineering and Marketing Intern | WARMILU | Ann Arbor, MI

Jun 2020 - Aug 2020

- Co-authored unreleased evidence based journal on effect of non-electric infant incubator blankets on preventing neonatal hypothermia in newborn nurseries or NICU's
- Acquired tangible increases in product sales and partnerships— secured over 65 partner countries in 2 months
- Generated tangible increases in customer/partner engagement and retention, leading to direct contact with USAID, Jhpiego, Dorothy Nyong'o and others
- Introduced management to new resources (Canva, Time Graphics, RocketReach, Photoshop, etc.)

PERSONAL PROJECTS

Geoscience Visualization | U-M Climate Space Program Projects

- Fit performance and event detection metrics on data model, evaluated discrimination and reliability of model
- Normalize and resampled datasets to perform statistical analysis; looked at skew, kurtosis, chi-squared, bootstrap analysis, ANOVA analysis, and nonlinear regression models to determine hypothesis validity
- Plotted all of the above and more in an easy to view format

News Classifier | Personal Project

- Constructed a Naive Bayesian classifier to categorize news articles as “Real” or “Fake” based on NLP techniques (Bag of Words model)
- Frontend created with Flask, HTML, and CSS; backend utilized a BeautifulSoup web scraper to convert user input (URL) into a count vectorizer that the Naive Bayesian model was run on.

Google Calendar Flask Integration | Personal Project

- Created a flask app that displays tasks from Google Calendars to a frontend web page that I also created

Infant Warming Analysis | Warmilu & JHPIEGO

- Executed linear regression modeling on medical trial data using Seaborn
- Yielded template for future statistical data visualization in the medical publishing sector

SKILLS & Certifications

Languages: C++, Python3 (seaborn, scikit learn, pandas, matplotlib, dash, pyspark, torch), **Basic Level:** Java, HTML, CSS, MATLAB

Software Platforms: Microsoft Suite, MS Project, Adobe Creative Cloud, SolidWorks, Trello, Kanban, Asana, Google Colaboratory, Jupyter Notebooks

Frameworks: Git, Flask, Hadoop/Hive

Certifications: (1) deeplearning.ai : Neural Networks & Deep Learning (2) UC San Diego: Intro to Big Data

LEADERSHIP & CLUBS

Chassis Engineer | MRACING Formula SAE: Manufactured nosecones, trained in Finite Element Analysis, data analysis

Student Mentor | ENLIGHT NYC: Assisted students in solving coding bugs, communicated with management

President | Girls Who Code Northview Chapter: Taught ~50 students web development, secured post grad positions for students in partner companies (e.g. Synchrony Finance)

President of Northview HS Lincoln Douglas Varsity Debate: Debate coach and sitting judge for national team; analyzed legal writing with attention to detail, attained strong written and verbal communication skills