

Suyash Mishra

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Education

Purdue University, Elmore Family School of Electrical and Computer Engineering

West Lafayette, IN

Bachelor of Science in Computer Engineering- GPA: 3.67/4.0

May 2023

Relevant Coursework: Python for Data Science, Artificial Intelligence, Probabilistic Methods in Electrical and Computer Engineering, Transforming Ideas to Innovation II

Skills and Achievements

Languages/Libraries: C, Python, MATLAB, PHP, Java, NumPy, Pandas, GridSearchCV, XGBoost, Matplotlib, Sklearn, Imblearn

Platforms: Docker, GitHub, Bitbucket, Microsoft Excel, Alteryx Designer

Database/BI Tools: MySQL, Oracle SQL, Tableau

Techniques: NLP, Regression, Classification, Dimensionality Reduction, Chi-square testing

Awards: VIP Share With the World – Broader impact through outreach, publications, grants, and creating opensource code

Work Experience

JPMorgan Chase & Co.

Jersey City, NJ

Artificial Intelligence/Data Science Summer Analyst

June 2022-Aug 2022

- Automated risk assessment separation process through Naïve Bayes and Support Vector Machines algorithms
- Classified security risk rankings of different applications with Principal Component Analysis to protect firm's software environment
- Engaged with a team to successfully predict security control breakdowns resulting from Change Requests using Oracle SQL, Tableau, and Gradient Boosting
- Implemented performance tests through Alteryx Designer to assess and prevent breaks of bank's internal controls
- Collaborated among interns in firmwide case study to understand and reduce rising housing costs through new policies

Purdue University Elmore Family School of Electrical and Computer Engineering

West Lafayette, IN

Undergraduate Researcher: Earth History Visualization

Aug 2020-Aug 2021

- Assembled multi-database searching website to extract geological formation data and centralize it into one common format
- Processed geospatial data to overlay geological formations on ancient world maps with pygplates and PyGMT Python libraries
- Rebuilt Docker containers to facilitate on-demand recreations of the ancient world at various time periods
- Refined word-parser system to automatically parse word documents into databases by utilizing mySQL and PHP
- Upgraded user interface and backend API to improve geological formation searching in smaller time ranges via HTML and PHP

Michigan Medicine

Ann Arbor, MI

Summer Research Intern: Health Data Analysis and Visualization

June 2020-Aug 2020

- Investigated health data disparities among obese people and type two diabetics by applying mySQL and Python programming
- Analyzed hardware data collected by individuals' Fitbits at minute level to find individually-tailored healthcare recommendations
- Composed individualized dashboards summarizing user health patterns over a selectable date range by virtue of Highcharts
- Collated and cleaned missing health data using Missingno Python library to enable more accurate analysis of data

Project Experience

Purdue University Vertically Integrated Projects

West Lafayette, IN

Undergraduate Researcher: Computer Vision for Forest Inventory Analysis

May 2021-Aug 2021

- Produced neural network training data to enhance tree recognition and forest evaluation for commercial foresters and geneticists
- Developed Dice Loss Function to evaluate and enhance neural network identification ability of various tree species
- Examined effects of parameter tuning on neural network to optimize and reduce misclassification of surrounding nature

nanoHUB.org

West Lafayette, IN

Data Analyst: Growing Global Impact Data Analytics and Machine Learning

Aug 2021-December 2021

- Scraped web pages using beautifulsoup to comprehend service popularity among individuals in academia
- Filtered and processed citation data to discern whether nanoHUB met yearly growth standards among academic researchers
- Remodeled plots with Matplotlib, seaborn, and plotly to identify related to higher education interaction with nanoHUB
- Linked plot-generating Python scripts to HTML pages to permit users to generate most current summarizations within seconds

Purdue University Transforming Ideas to Innovation II Design Project

West Lafayette, IN

Research Analyst: Enzyme Efficiency and Pricing

March 2020-May 2020

- Created and polished MATLAB algorithm determining enzyme efficiency and pricing to advance laundry detergent quality
- Cleansed noisy enzyme data with data smoothing techniques to interpret parameters needed to assess enzyme performance
- Devised functional specifications to communicate plan to non-technical stakeholders on how to predict appropriate enzyme prices