

MEGHANA MANGALVEDHE

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EDUCATION

University of Illinois at Urbana-Champaign

May 2024

Bachelor of Science in Bioengineering & Minor in Applied Statistics

EXPERIENCE

Procter & Gamble

Mason, OH

Data Science and Analytics Engineer Intern

May 2022 – August 2022

- Tested clinical study claims on a potential sleep device using SAS and JMP to identify level of efficacy of product from consumer responses; provided insight on whether to continue investment in product
- Performed competitive intelligence analyses in VantagePoint through text mining to interpret trends for vitamins and supplements in the U.S. in the past 5 years, strategizing ideas to grow in niche markets
- Built 6 clinical databases alongside senior clinical statistician through data mapping in SAS for a regulatory submission to the Food and Drug Administration with immediate business impact

Miller Lab – Statistical Analysis in Neuroscience

Champaign, IL

Undergraduate Research Assistant

January 2022 – Present

- Calculated methods of interrater reliability in Python of manual segmentation by annotators of neural cells
- Interpreted statistical differences in accuracy between expert and novice groups to analyze performance of lab members and to understand impact of experience on training data

Christie's Dairy Delights and Coffee House

Palatine, IL

Barista and Social Media Manager

May 2020 – August 2021

- Prepared 40+ varieties of coffee drinks, pastries, and desserts; designed new specialty orders by request
- Handled financial issues such as overseeing transactions with partnered businesses during work hours

LEADERSHIP AND INVOLVEMENT

Theta Tau Professional Engineering Fraternity

Champaign, IL

Professional Development Chair

January 2021 – Present

- Organized professional workshops for engineers as well as mentorship program to integrate new members and provide with career development opportunities
- Actively participated in 60+ philanthropy events, professional development, and weekly chapter meetings

Biomedical Engineering Society

Champaign, IL

Event Planning Chair

August 2020 – Present

- Coordinated events to strengthen relationships between students and faculty in bioengineering
- Enhanced networking with professors and biomedical industries to gain opportunities in upcoming years

Engineering Outreach Society

Champaign, IL

Social Media Chair

August 2020 – May 2022

- Collaborated with elementary schools in Champaign area to teach projects and increase curiosity in STEM
- Maintained and improved the organization's Instagram page and website with upcoming opportunities

PROJECTS

3D Printed Prosthetic Hand - Engineering Open House

Champaign, IL

Team Member

January – April 2022

- Designed and 3-D printed a hand using OnShape CAD software for the annual Engineering Open House
- Acquired Arduino programs to allow hand to perform hand movements that mirror natural physiology

Bioengineering Approaches

Champaign, IL

Analytical Team Member

August – December 2020

- Recorded biometric data and analyzed physiological symptoms of stress in Matlab to determine whether lo-fi music has a statistically significant effect on lowering heart rate and oxygenation levels in students

RELEVANT SKILLS

Programs - Matlab, RStudio, SAS, Java, JMP, Microsoft Excel

Coursework – Probabilistic Risk Analysis, Intro to Computer Science, Linear Algebra for Biomedical Data Science

AI in Medicine Certificate - Carle Illinois College of Medicine