

Ankur Malik

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EDUCATION AND HONORS

University of California, Santa Barbara: College of Letters and Sciences **Santa Barbara, CA**
Degree: Bachelors of Science in Data Science and Statistics (GPA: 4.00/4.00, ACT: 36) August 2020 – May 2023
Relevant Coursework: Big Data Analytics, Discrete Mathematics, Probability and Statistics, Statistical Machine Learning
Honors: Regents Scholar (Top 2% of UCSB), Honors Student, AIME Qualifier (109/120 AMC 12), Stanford ProCo (7th/20), Saint Francis Hacks (3rd/50), USACO (top 100 in Silver division), First Robotics Competition (8th in the world)

PROFESSIONAL EXPERIENCE

ShipHawk **Santa Barbara, CA**
Data Scientist May 2021 – August 2021

- Developed an algorithm that determines ideal parameters and materials for packaging items based on construction and density by cleaning and prepping data from the engineering department using Python, SQL, and Excel
- Illustrated reductions in manual labor will reduce carbon emissions from corporate factories by 35% by building data visualizations utilizing Python, Matplotlib, and R
- Expanding client base by identifying strategic market opportunities regarding finances through detailed analysis

Caeli, Inc **Santa Barbara, CA**
Data Analyst August 2020 – March 2021

- Compiled, studied, and inferred 1000+ data points; modeling information to determine the viability of a particulate matter capturer and predict the reduction in particulate matter nationwide
- Developed a tracker in Python for the volume of particulate matter and greenhouse gasses captured in a 30-meter region
- Compiled an automated report and data visuals utilizing Python, R, and Excel to summarize the contents of air quality for the engineering team

PROJECTS

My House **Cupertino, CA**
Computer Science Course Final Project June 2021 – August 2021

- Aggregated and prepped a year's worth of housing data in Cupertino from independent sources into a MySQL database
- Built an algorithm in Python utilizing Pandas and NumPy which identified the best houses in a particular region based on metrics such as pricing, bedroom count, square footage, future home prices, and lease period

LEADERSHIP

Undergraduate Learning Assistant (U.L.A.) **Santa Barbara, CA**
Understanding Data (University of California, Santa Barbara) August 2021 – Present

- Collaborate with the instructor and 3 other TAs to lead sections, grade coursework, and answer 60+ students' questions
- Assist students to understand Python, NumPy, Pandas, DataFrames, data visualization, data analysis, and basic probability

Undergraduate Researcher @ UCSB: Physics Department **Santa Barbara, CA**
Undergraduate Software Engineer/Data Scientist December 2020 – Current

- Work under Dr. Lubin with a group of undergraduate and graduate students on developing an algorithm utilizing machine learning to detect new and present constellations by image recognition and coordinate geometry
- Implement SAOImageDS9 to build models and images to visualize constellations and import coordinates into MySQL

180 Degrees Consulting **Santa Barbara, CA**
Senior Consultant August 2020 – Current

- Formulate recommendations and solutions for non-profit clients through market research, social impact strategies, and statistical analyses to optimize internal operations and social impact
- Elevated organizations social media presence by 19%, increased donations by 10%, and expanded clientele by 12% on average

ImprovMD **Cupertino, CA**
Co-Founder/Lead Engineer August 2017 – Current

- Collaborate with Dr. Ajay Upadhyia to develop a cheap and sustainable laparoscopic camera with improved resolution and size while reducing human labor
- Construct a fiber-optic lens, circuit board, and a graphene-based cover to protect the camera lens and prevent image distortion all while reducing the parameters of industry sized cameras

SKILLS

Programming Languages: Python, R, C++, SQL, HTML, CSS

Big Data & Machine Learning: Spark, Tableau, Hadoop, Python (NumPy, Pandas, Matplotlib)

Data Science & Statistics Technologies: Data Science Pipeline (Cleansing, wrangling, visualization, modeling, interpretation), Statistics, Hypothesis testing, Excel, APIs

Certifications (Coursera): Deep Learning Specialization, Data Science Fundamentals with Python and SQL specialization

Interests: Tennis, Modifying Cars, Racing, Reading, Traveling, Cooking