Dhanush Biddala

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A highly motivated college sophomore double majoring in Computer Science and Data Science at Purdue University seeking work experience to expand my knowledge and experience in the field of Data Science. I am passionate about utilizing Data Science and Data Analytics to solve complex problems and positively impact society.

EDUCATION

Purdue University, West Lafayette, IN *Aug 2022 – Expected May 2026*

Bachelor of Science in Computer Science and Data Science GPA: 3.83/4.00

Fall 2022 Dean's List and Semester Honors, Spring 2023 Dean's List and Semester Honors

Carmel High School, Carmel, IN *Aug 2018 – May 2022*

AP Capstone Diploma with Academic Honors

Relevant Coursework: Data Mining and Machine Learning, Problem Solving and Object-Oriented Programming, Foundations Of Computer Science (Discrete Mathematics), Programming In C, Analytic Geometry And Calculus I, Plane Analytic Geometry And Calculus II, AP Statistics**.**

EXPERIENCE AND PROJECTS

Undergraduate Research – Purdue Data Mine and Bayer Crop Sciences *Aug 2022 – May 2023*

- Worked as an Undergraduate Researcher in collaboration with Bayer Crop Sciences for the Purdue Data Mine. Involved in the creation of various machine learning models to predict crop yield using phenotype data and genetic markers.
- Developed, tested, and debugged models including Lasso Regression, Ridge Regression, Random Forest Regression, and Elastic Net regression. Used hyperparameter tuning to optimize model results.

Technologies: Python (pandas, NumPy, scikit-learn, Tensorflow, Matplotlib), R (ggplot2)

FAQ Chatbot – Health and Science Innovations *Jan 2022 – May 2022*

- Developed an interactive chatbot feature for local non-profit as a part of high school Artificial Intelligence and Machine Learning club.
- Chatbot created to answer frequently asked questions pertaining to information about summer camps the non-profit offers.

Technologies: Python, RasaX (open-source NLP framework)

Sneaker Resale Price Predictor – Carmel High School AP Research Project *Aug 2020 – May 2021*

- Conducted exploratory data analysis and visualization to find which properties of a sneaker impacted its resale value on the secondary market the most. Used data from 2019 StockX Data Contest.
- Created linear regression model to predict resale price of sneakers based on properties of the shoe.

Technologies: Python (scikit-learn, pandas, Matplotlib, seaborn)

CERTIFICATIONS:

Rice University Deep Learning: Deploying AI to maintain Smart Cities

Rice University Deep Learning: Learning Python while solving mechanical engineering problems

Rice University Internet of Things, Machine Learning & Python

Machine Learning A-ZTM: Python & R in Data Science

EXTRACURRICULARS:

Purdue Hackers *Aug 2022 – Present*

Purdue Sports Analytics Club *Aug 2022 – Present*

LEADERSHIP:

National Computer Science Honors Society Officer *Aug 2020 – May 2022*

- Elected club officer for my high school's chapter of the National Computer Science Honors Society. Organized all computer science related events at Carmel High School including annual Hour of Code outreach event, hackathons, and USACO-style competitive programming competitions.

Artificial Intelligence and Machine Learning Club Vice President *Aug 2019 – May 2022*

- Elected Vice President and founding member of my high school's Artificial Intelligence and Machine Learning club. Conducted bi-weekly meetings where less experienced students were walked through basic data science and machine learning problems, as well as conducted local Kaggle-style competitions in the community.

Code For Change Community Outreach Officer *Aug 2020 – May 2022*

- Partnered with local organizations and companies in order to provide computer science-related solutions. Past projects included creating websites for local businesses, setting up computer science classes for younger children, and coordinating out-of-school hackathons.

SKILLS

Technical Skills: Java, C, R, Python, JavaScript, HTML, Microsoft Office, Microsoft Excel

Related Technologies: SciKit-Learn, TensorFlow, Pandas, Matplotlib, BeautifulSoup, NumPy, ggplot