

Dishan Bhattacharya

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EDUCATION

Purdue University

Bachelor of Science in Computer Science, Minor in Economics

West Lafayette, IN

Aug. 2024 – May 2028

Downingtown STEM Academy

IB HL Courses: Economics, Physics, Calculus, Statistics, Literature

Downingtown, PA

Aug. 2020 – May 2024

EXPERIENCE

Boilerexams

Purdue University

November 2024 – Present

West Lafayette, IN

- Analyze over **5.64 million** user submissions to derive conclusions for **21+** Purdue courses.
- Develop models for understanding exam question biases to better effectively prepare students for exams using data from **192** exams.
- Visualize key findings through *Matplotlib* and *Seaborn* plots to support data-driven decision-making.
- Support the development of the largest and most popular study resource on campus.

Purdue IEEE

Purdue University

Sep. 2024 – Present

West Lafayette, IN

- Present to **50+** people at workshops teaching the intersection of machine learning and finance.
- Collaborate on the development on workshops on engineering topics to foster innovative environments.

Jubilee Club, Bengali Cultural Club

Downingtown STEM Academy

Jan. 2022 – Aug. 2024

Philadelphia, PA

- Developed and published a portal to other resources for the local ethnic community.
- Renovated website to attract **6,000+ unique visitors**.
- Received “Youth Leadership” award for contribution to local community.

SAP (Systems, Applications and Products in Data Processing)

Downingtown STEM Academy

Jul. 2023 – Aug. 2023

Newtown Square, PA

- Developed a mobile application for industry to effectively upload software issue tickets and obtain resolutions.
- Engaged with professionals during workshops to grow soft skills like written and oral communication.

PROJECTS

Indian Tech Startup Success Prediction | *Python, pandas, scikit-learn*

July 2023 – Aug. 2024

- Developed Random Forest and XGBoost models ML to predict Indian tech startup success.
- Achieved **82 percent** accuracy on startup success prediction.
- Visualized startup data to highlight outliers and key findings and find most important factors for prediction.
- Authored paper and presented findings at **Purdue 2024 Fall Undergraduate Research Expo**
- Most important parameters in model: Seed lag, social media presence, and amount raised during seed funding.

FunCha: Website for Ethnic Food | *Astro, React, Tailwind CSS*

June 2023 – Aug. 2024

- Led group of three to curate and compile Bengali recipes.
- 2,000+ unique page views** within the first six months.
- Created roadmap for effectively developing the web application interface to align with user needs.
- Addressed lack of Southeast Asian ethnic food resources online.

Wharton High School Data Science Competition | *PyCaret, Seaborn, pandas*

Jan. 2024 – May 2024

- Led team of 5 to compete and **placed 2nd** against **300+ teams** from **37 countries** with the highest accuracy model and presentation.
- Developed machine learning models to predict league and tournament results of a simulated soccer league.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS

Developer Tools: Git, Google Cloud Platform, VS Code, DataSpell, PyCharm, IntelliJ

Libraries: scikit-learn, pandas, NumPy, Matplotlib