Dishan Bhattacharya

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EDUCATION

Purdue University   West Lafayette, IN
Bachelor of Science in Computer Science, Minor in Business Economics   *Exp: May 2027*
Relevant Coursework: Microeconomics, Macroeconomics, C Programming, Calculus III, Discrete Structures
Anticipated Coursework: Data Structures & Algorithms, Linear Algebra, International Trade, Computational Economics

EXPERIENCE

Purdue University   Jun. 2025 – Present
Software Developer   *West Lafayette, IN*
- Used Postman to test and debug 5+ RESTful API endpoints, supporting user authentication and profile management.
- Simulated Azure blob storage using Azurite and managed content files through Azure Storage Explorer during development.
- Built interactive UI components in React JS to display data retrieved from backend APIs.

Boilerexams (Studying Platform for Purdue Students)   Nov. 2024 – Present
Data Analytics Lead   *West Lafayette, IN*
- Analyzed 8M+ submissions for 188 practice exams by engineering scalable Python workflows (Polars, Pandas), driving content optimizations and a 20% boost in engagement.
- Standardized difficulty ratings across 188 exams by analyzing user accuracy, time on task, and solution tool usage.
- Built Swetrix dashboards for usage and engagement trends to make product decisions across 25 courses.
- Delivered 8+ data reports with actionable recommendations, directly influencing feature improvements and content curation.

Purdue IEEE   Dec. 2024 – Jun. 2025
Vice President of Technical Committees   *West Lafayette, IN*
- Led and managed 7 technical committees with 800+ active members and $40,000+ in organization funds.
- Spearheaded workshops on machine learning and finance with 50+ attendees, presenting applications and economical impacts.
- Collaborated on networking events with students, academics, and industry partners for 100+ attendees.

SAP (Systems, Applications and Products in Data Processing)   Jul. 2023 – Aug. 2023
Junior Developer Intern   *Newtown Square, PA*
- Developed mobile ticketing software for industry with S/4 HANA and obtain resolutions.
- Engaged with product testing, sales, and technical support and familiarize with product life cycles.

Jubilee Club, Bengali Cultural Club   Jan. 2022 – Aug. 2024
Frontend Developer   *Philadelphia, PA*
- Built and maintained community portal serving 1.5K monthly users with curated local ethnic (Bengali) resources.
- Redesigned UI/UX to attract 6K+ unique visitors; improved navigation and visual consistency.
- Received "Youth Leadership" award for contribution to local community.

PROJECTS

Tech Startup Success Predictor | *Python, Matplotlib, pandas, scikit-learn*   Jul. 2023 – Aug. 2024
- Hyperparameter-Tuned Random Forest, XGBoost, LightGBM machine learning models to predict Indian tech startup success.
- Achieved **82 percent** accuracy on startup success prediction with optimized Random Forest classifier model.
- Employed feature extraction and visualization on startup data to highlight outliers and key findings: Seed lag, social media presence, and amount raised during seed funding as most important features.
- Authored paper accepted to JEI and presented findings at **Purdue 2024 Fall Undergraduate Research Expo**.

FunCha: Website for Ethnic Food | *Astro, React, Tailwind CSS*   Jun. 2023 – Aug. 2024
- Owned execution of custom full-stack web application with dynamic React components,
- Led team of 3 to addressed lack of Southeast Asian ethnic food resources online by curating & compiling Bengali recipes.
- Attract over **2,000+ unique page views** within the first six months using React and Astro frameworks.
- Created roadmap for effectively developing the web application interface to align with user needs.

Wharton High School Data Science Competition | *PyCaret, Seaborn, pandas*   Jan. 2024 – May 2024
- Placed 2nd against 300+ global teams by developing highest-accuracy model, prototyping with PyCaret and Pandas.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, JavaScript, SQL, HTML, CSS
Libraries: Pandas, Polars, NumPy, Matplotlib, React, Node
Developer Tools & Skills: Git, RESTful API Design, Jupyter Notebooks, Microsoft Azure, Azurite, Docker, Google Cloud, MS Excel
Concepts: Backend Development, Frontend Development, Fullstack Development, Software Engineering, Machine Learning, Data Science, Data Engineering, DevOps, Mathematics, Economics, Economic Analysis, Statistical Analysis, Agile, Automation