Aniket Biswal

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EDUCATION

Purdue University   West Lafayette, IN
Bachelors of Science: Computer Science | Mathematics | Data Science   Aug. 2022 – Dec. 2025
- **GPA**: 3.6/4.0 | **Honors**: Dean's List (4x), Semester Honors (4x)
- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning and Data Mining, Probability, Statistics, Systems Programming, Computer Architecture, Linear Algebra, Object-Oriented Programming in Java, Programming in C

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, TypeScript, JavaScript, HTML/CSS
Frameworks and Libraries: Tensorflow, PyTorch, Flask, NextJS, React, MongoDB
Softwares and Cloud Platforms: Microsoft Azure, Jupyter, Google Firebase, Github, UNIX
Certifications: Akuna Capital Options 101 and 201 Course Completions

PROFESSIONAL EXPERIENCE

MISO   Carmel, IN
R&D Machine Learning Intern   May 2024 – Jan. 2025
- **Intern Data Challenge Winner:** Led a group of 4 interns to win MISO's "Intern Data Challenge", where we were tasked with presenting predictive analysis of several given data sets to a panel of judges in 1 week's time
- Built a NeuralProphet model and a SARIMAX model from scratch using aggregated historical time series data of energy demand to forecast future demand in different regions which reduced error by ~16% compared to current forecasting techniques
- Leveraged Microsoft Azure ML Studio to access Blob storage data, write and test machine learning models

Undergraduate Researcher   West Lafayette, IN
Under direction of Dr. Berkay Celik, Associate Professor of Computer Science, Purdue School of Science   June 2023 – Dec. 2023
- Recreated neural scene representations and computer image renderings from prior research articles with a Generative Query Network (GQN) built using PyTorch
- Applied renderings to autonomous vehicles to increase efficiency in landscape generation and trajectory projection

ENTREPRENEURSHIP

PrepOlympiad | React, Tailwind CSS, PostgreSQL   Aug. 2024 – Present
- Collaborating with Art of Problem Solving (AoPS) as a developer to bring this project to their website to expand their outreach
- Created a full stack web application which allows middle and high school students to practice problems, track individual progress, and find curated resources to science Olympiads such as USABO, USAPhO, and USNCO
- Designed a dynamic user interface to enable seamless navigation, responsive feedback, and visualize progress

PROJECTS

SyllabAI | NextJS, Tailwind CSS, Flask   Feb. 2025 – Present
- Developed a simplistic platform for students to combine their college syllabuses into one document for ease of access
- Used OpenAI GPT-4o-mini model API key to parse and process each syllabus into individual sections for combining
- Created REST API routing through a Flask server to access parsed data and post to the frontend

Purdue Robotics Club Website Development   Sep. 2023 – May 2024
- Collaborated with a team on the comprehensive redesign of the Purdue Robotics Club (Purdue ARC) website, employing HTML, CSS, and React for a dynamic user experience
- Contributed to the development of a back-end registration form for the 2024 Robotic and Intelligent Systems Expo (RISE), facilitating participation from companies, labs, and clubs through a secure Google Firebase server for data collection and storage
- Websites: https://www.purduearc.com, https://www.rise.purduearc.com

Machine Learning at Purdue (ML@P)   Jan. 2023 – Aug. 2023
- Collaborated on a team to develop a GAN to diagnose medical issues from eye images using capabilities from Tensorflow
- Collaborated with a different team to create a chatbot using an innovative transformer model for our discord channel
- Used Zero Shot Classification from Hugging Face to generate API calls for the chatbot and classify new inputs

AWARDS AND HOBBIES

5-time Qualifier for American Invitational Mathematics Exam (AIME)   Mar. 2018 – Mar. 2022
National Mathcounts Qualifier   May 2018
Hobbies: Basketball, Football, Tennis, Poker, Chess, Painting