Tanishq Bansod

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EDUCATION

University of Pittsburgh, *Bachelors in Computer Science* Expected 2027 | Pittsburgh, PA
GPA: 3.9
Organizations: Computer Science Club at Pitt, Pitt Mastana Dance Team

PROFESSIONAL EXPERIENCE

University of Pittsburgh, *Discrete Mathematics Undergraduate Teaching Assistant* 01/2025 – present | Pittsburgh, PA
- Designed and presented **weekly** recitation slideshows to reinforce lecture material for 20 students, focusing on logic and other discrete mathematics concepts
- Held **10** weekly office hours to assist students and improve performance
- Prepared **course materials** and managed student queries
- Monitored student progress and provided feedback to ensure **topic mastery**

University of Pittsburgh, *Research Assistant* 11/2024 – present | Pittsburgh, PA
- Compiled and annotated a dataset of concept-labeled computer science lecture presentations using the **BIO span-labeling** framework
- Leveraged Large Language Models (LLMs) for **automated** annotations, reducing manual workload and improving **scalability**
- Co-authored a research abstract and contributed to the **development** of a machine-learning system for concept extraction
- Collaborated with a team of **9 researchers** in **biweekly** meetings to plan experiments, annotate data, and strategize funding opportunities

Baans USA, *Software Development and Marketing Lead* 06/2024 – present | Pittsburgh, PA
- Led the development of *Nirvanaa Brows* website using **Figma** and **WordPress**, resulting in a platform generating *1,106* views over Summer 2024
- **Directed** client marketing initiatives at Baans USA by **crafting** daily social media posts and videos, increasing audience engagement
- **Spearheaded** comprehensive requirement documents by conducting detailed stakeholder interviews and analysis, resulting in a **reduction in project scope changes** and enhanced clarity for the development team
- Played a key role in enhancing the online presence and **increasing revenue** for both companies by leading targeted development projects and implementing strategic initiatives, resulting in a **40% increase** in online traffic within the **first six months**

PROJECTS

Freudify, *Google Chrome Built-in AI Challenge* 11/2024 – 12/2024
- Developed a full-stack **MERN** (MongoDB, Express.js, React, Node.js) web app that leverages **AI-driven APIs** (Gemini Nano) to analyze and interpret **500+** user-submitted dreams
- Engineered secure authentication using **JWT** and **MongoDB**, enabling seamless user registration, login, and access to protected routes, improving user security by **90%**
- Designed a responsive UI with React and Tailwind CSS, providing an engaging user experience for approximately **200** active users through dynamic routing and smooth navigation
- Collaborated with a partner to develop **RESTful APIs** that manage dream data submissions and AI-generated responses, ensuring scalability and optimizing API response times by **30%**

HReview, *Steel Hacks 2024* 09/2024
- Developed a review summarization tool using the **OpenAI GPT API**, processing over **100+** reviews and summarizing them to identify key strengths and weaknesses
- Deployed a user-friendly interface that improved review processing efficiency by **30**%, handling batches of **24** reviews at a time
- Optimized **API** interactions through parameter adjustments to generate summaries while reducing response time by **20%**
- Collaborated with a **team of 4** to present the project to industry professionals, effectively communicating technical details and demonstrating its impact

Anime AI Image Classifier 06/2023 – 08/2023
- Developed a **Python-based** anime image classifier, scraping over **500** character images from *MyAnimeList* and augmenting the dataset by generating **10x more images** using **TensorFlow's ImageDataGenerator**, enhancing model robustness
- Engineered a classification model based on **MobileNetV2**, achieving **85%** validation accuracy through hyperparameter tuning
- Implemented the processing and splitting of over **1000 images** into training and testing sets, using an **80-20 train-test ratio** to optimize model performance
- Deployed the model for **real-time predictions** with a user-friendly script, delivering character classifications with over **80% accuracy** in under **1 second** per image

SKILLS

Technical Skills

Languages: Java, JavaScript, Python, C++, HTML
Frameworks & Libraries: React, Tailwind CSS, MongoDB, Express.js, Node.js, Git, WordPress, Webflow, GoDaddy, Tensorflow, Keras, MobileNetV2, BeautifulSoup, Requests, Pandas, NumPy, Matplotlib