

Daksh Khetarpaul

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Motivated and skilled Computer Engineering graduate with hands-on experience in full-stack development, machine learning, and data analysis. Seeking opportunities to leverage skills and knowledge in a dynamic professional environment.

Education

Rutgers University–New Brunswick

Sep 2021 - May 2025

B.S. in Computer Engineering

Relevant Coursework: Computer Architecture, Data Structures and Algorithms, Software Engineering, Machine Learning, Discrete Maths, Linear Algebra, Digital System Design, Hardware & System Security

Github: <https://github.com/dakshkhetarpaul>

Skills

Node.js React.js Python C/C++ JavaScript HTML TypeScript Azure
MongoDB MySQL Power BI Git OOP Linux Matlab PyTorch LLM's
Neural Networks SystemVerilog Project Management Public Speaking

Work Experience

Promptly Technologies, Inc Full Stack Intern

Jun 2024 - Aug 2024

- Developed “SamurEye”, an EMR(Electronic Medical Record) system for Refractive Surgeries using Node.js and React.js, ensuring optimal user experience for 200+ users at Boston Vision.
- Integrated Power BI to streamline patient data analysis workflows, achieving a 27% reduction in process time.

WINLAB Machine Learning Intern

Jun 2023 - Aug 2023

<https://www.orbit-lab.org/wiki/Other/Summer/2023/Features>

- Utilized Python and Slurm on a version of AlexNet with multiple test cases on Rutgers iLab GPUs to analyze the correlation in accuracy and bias.
- Performed tests on 10,000 self-generated simulations to evaluate the potential of machine learning in animal behavioral studies.

Rutgers Learning Centers Learning Assistant

Sep 2022 - May 2023

- Assisted the course faculty in 90+ lecture and recitation sessions for Precalculus.
- Interacted with 70+ students per session, improving course structure and maximizing learning outcomes.

Tripat Infoways Software Engineering Intern

May 2022 - Aug 2022

- Designed a website using HTML and JavaScript, leading to a 30% increase in web traffic.
- Implemented data handling with PHP and MySQL, enhancing site performance by 20%.

Projects

Eye Health Monitor Lead Engineer

Dec 2024 - Apr 2025

<https://github.com/dakshkhetarpaul/Eye-Health-Monitor>

- Built a real-time blink detection system on Raspberry Pi 5 using OpenCV, dlib, and Picamera to track Eye Aspect Ratio (EAR) and deliver alerts to promote better eye health.
- Integrated Firebase and Power BI for real-time data synchronization and behavioral analytics.

Machine Learning 443 Project ML Engineer

Oct 2024 - Dec 2024

<https://github.com/dakshkhetarpaul/Triples-Threat-ML>

- Evaluated predictive models by leveraging Machine Learning methodologies such as Train-Test Split, K-Fold Cross-Validation, and feature extraction.
- Implemented Linear Regression and Support Vector Regression to predict song streaming performance based on critical audio features such as danceability, acoustics, and tempo, utilizing a raw dataset of 953 samples.
- Designed and deployed a robust text classification pipeline using Naive Bayes to accurately identify and classify phishing emails by using a dataset of 18,600 email records.

Gym Haven(e-commerce Website) Software Engineer

Jan 2024 - May 2024

<https://github.com/hransom528/ECE452-SoftEng-Project>

- Developed a gym equipment website leveraging RESTful APIs utilizing Node.js and MongoDB.
- Implemented Google Sign-In, Stripe, EasyPost, and OpenAI APIs.

Certifications

Microsoft Power BI Data Analyst Associate

Aug 2024 - Aug 2025

<https://learn.microsoft.com/en-us/users/dakshkhetarpaul-6443/credentials/9f29a68fb1a8d243>