Deep Patel

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Education

Towson University: B.S in Computer Science — Towson, MD, 2019

Dean's List (8X) | ***summa cum laude*** | GPA: 3.98/4.0

Publications

[1] Y. Huang, A. Kadav, F. Lai, **D. Patel**, and H. P. Graf, "Learning higher-order object interactions for keypoint-based video understanding," *ICCV Workshop on Structured Representations for Video Understanding*, 2021.

Awards

2022 NEC Labs **Dedication Award** for successful deployment of action recognition on cloud.

2020 NEC Labs **Business Contribution Award** for smart video analytics in retail.

2017 Towson University Admissions Scholarship for **Outstanding Academic Achievements.**

Work Experience

NEC Labs America - ML Dept. — Princeton, NJ

Associate Researcher — Apr 2022 - Present

- Solve research problems in **video understanding & reasoning**, data streaming and **efficient AI**.
- Design and implement scalable and cost-efficient video streaming and processing pipelines.

NEC X - Eigen Team — Princeton, NJ

Contract Research Engineer — Sept 2019 - Apr 2022

- Implemented a **linux based firmware** for cloud video and audio streaming using wifi security cameras.
- Developed the production backend for action recognition system on **AWS**.

INSuRE - Johns Hopkins University - Applied Physics Lab — Baltimore, MD

ML Intern — Dec 2018 – May 2019

- Researched and developed a NLP based solution for detection of malicious weblinks and content.
- Integrated the deep learned model in the backend of a chrome extension using **RESTful APIs**.

Towson University - CS Dept. — Towson, MD

Research Assistant — August 2018 – May2019

- Performed **independent research** on detection and classification of edible wild plants using transfer learning.

Skills

Programming:	**C**, **Python**, C++, JavaScript, Java, Kotlin, Scala, Perl
Databases / ETL:	SQL, **PostgreSQL**, SQLite, DynamoDB, **GraphQL**
ML / Deep Learning:	**Pytorch**, Numpy, MLflow, OpenCV, TensoRT, Triton Inference Server
Others:	**Linux**, Windows, **AWS**, Google Cloud, Docker, Kubernetes, Shell Scripting, Postman, Git, **Firmware/Embedded development**

Last updated: January 16, 2023