

Deep Patel

 deepsworld |  deepsworld |  pateldeep494@gmail.com |  +1(254)-252-2744


EDUCATION

Towson University: B.S in Computer Science

Towson, MD, 2019

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

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 and **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 – May 2019

- 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, TensorRT, Triton Inference Server

Others:

Linux, Windows, **AWS**, Google Cloud, Docker, Kubernetes, Shell Scripting, Postman, Git, **Firmware/Embedded development**