

ANWESH BADAPANDA

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EDUCATION

Bennett University

Bachelor of Technology : Computer Science and Engineering **CGPA: 9.1**

Academic Excellence Scholarship : **1,05,000 INR/year, 4 years**

Greater Noida, Uttar Pradesh

July 2019 - May 2023

EXPERIENCE

Georgia Institute of Technology

Research Intern (Advisor: Prof Wenke Lee)

Atlanta, Georgia

September 2022 - May 2023

- Developed a deep learning model using **Variational Autoencoders, Multi-head Attention and physics informed losses** to detect attacks and anomalies in **Cyber-Physical Systems**
- Achieved a **detection accuracy of 98.3%** and a **false positive rate of 0.8%**
- Submitted the results of our work to the **ACM CCS 2023 conference**.
- Contributed in the development of a tool to **monitor and analyze SCADA processes to detect malicious activities** using Windows Process Monitor
- Investigating **anomaly detection** in PowerGrid Human Machine Interfaces through the use of **segmentation techniques in computer vision**

Deloitte India

Data Science Intern

Bengaluru, Karnataka

July 2022 - December 2022

- Performed **predictive & descriptive analytics** for Audit & Advisory division
- Used **Python and Microsoft Excel** to preprocess raw data provided by clients
- Created dashboards on **PowerBI** to visualize and analyze data
- Assisted Advisory Management team in the **analysis and visualization of payroll data** for multiple clients across multiple industries

PROJECTS

Monocular Depth Estimation and Object Detection

https://github.com/anweshb/GAIP_Project

- Developed a visual aid tool to help the visually challenged avoid obstacles using **Depth Estimation and Object Detection**
- Used pre-trained MiDAS model and fine-tuned **YOLOv5** to custom dataset and achieved a **mAP of 67%**.
- Deployed the project to **Streamlit** for real-time use.

RoboCop

<https://github.com/anweshb/NCoders-Robocop>

- Designed a **facial recognition system** using **OpenCV** to detect intruders.
- Deployed the model on **Raspberry Pi**
- Integrated the local database with **FireBase** so the images of the faces detected can be seen from a mobile application.

POSITIONS OF RESPONSIBILITY

Co-President

Bennett Artificial Intelligence Society

Greater Noida, Uttar Pradesh

January 2020 - August 2022

- Founding member of a club promoting research among undergraduates in the field of **Artificial Intelligence**
- Organized **workshops** and various other events, **led recruitment** and **held weekly reading groups** to help undergraduates **discuss, understand and implement recent research papers**

SKILLS

Technical Skills: Python, Java, TensorFlow, PowerBI, MySQL, Machine Learning, Data Analytics

Soft Skills: Communication, Teamwork, Work ethic, Attention to detail