Anubhav Sharma

Incoming graduate student • Carnegie Mellon University • Computational and Data Science ·

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Education

Thapar Institute of Engineering And Technology   *Patiala, India*
BACHELOR OF ENGINEERING, MAJOR IN COMPUTER ENGINEERING   *2018 - 2022*
- Cumulative Performance Index (CGPA): 9.09/10.0

Work Experience

Technical Consulting Engineer, Cisco Systems   *Jan 2023. - Dec 2023.*
- **Software Development and Automation**:
  Point-of-contact for **development** and **automation** scripts using **Python, SQL, and Ansible**, reducing repetitive tasks. Implemented automated **infrastructure checks** and **monitoring applications**. Currently **leading** the development of a live dashboard, integrating **Machine Learning** for **trend isolation** and **predictions** to **optimize operational costs**, particularly by **tracking hardware replacement data**.
- **Server Virtualization Engineer**:
  Worked on **Data Center Networking**, **Server Virtualization**, **Server Architecture**, **Storage Systems** and **VMware implementations**, to manage and optimize critical client productions.
- **ACI Specialist**:
  Worked with **Software-Defined Networking - Cisco ACI** management, **deployments**, and troubleshooting **critical incidents** for Cisco clients.

Technical Undergraduate Intern, Cisco Systems   *Jan. 2022 - Jul. 2022*
- Developed a **WebApp** using **Network Programming, Python**, **React, Django, SQL** for automating and detecting anomalies in Pre-Post Health-Checks and Infrastructure Management for various device classes.
- Worked on custom data parsing templates and **error detection** logics for Cisco routers, switches.

Publication and Certifications

Research Publication: COVDC-Net   *Sept 2021 - Aug 2022*
- "A novel fusion based convolutional neural network approach for classification of COVID-19 from chest X-ray images", (2022) Biomedical Signal Processing and Control, vol 77, 103778.
- Improved transfer learning classification accuracy for detection of COVID-19 from Chest X-ray samples through **deep learning** (CNN) using **fusion techniques**.
- Used **confidence fusion** method to present a **comparative analysis** across diverse **deep-learning models**.

Machine Learning Specialization   *Jan. 2024*
Standford Online, DeepLearning.AI

Cisco Certified DevNet Associate, Cisco Certified Network Associate   *Feb. 2022*
Cisco Systems, Inc.

Skills And Relevant Coursework

Languages/Skills   C/C++, Python, SQL, MATLAB, R, Shell Scripting, Git, Linux, Tensorflow, Network Programming, Software Defined Networking, Server Virtualization, API, VMware

A Computer Programming	A Operating Systems	A Data Structures
A Optimisation Techniques	A Database Management System	A- Artificial Intelligence
A Data Science Fundamentals	A Introduction to Cyber Security	A- Machine Learning

Personal Projects

Computer Vision + AI based TicTacToe PYTHON
- **Minimax algorithm** coupled with **contour extraction** for finger detection and **Webcam video feed** to simulate a **live** TiC-Tac-Toe experience with **AI**.

Virtual Assistant / Smart Speaker Attachment PYTHON
- **NLP** combined with **Voice Recognition**, **API** services and **Web Scraping** built into **Micro-controller**.
- **HTML/CSS, JavaScript, Python** for an intuitive and dynamic user interface, all bundled into a single **executable** Virtual Assistant application.