# Aditeya Nanda

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## EDUCATION

**The University of North Carolina at Charlotte, Charlotte, NC** **December 2022**
*Master of Science in Computer Science* **GPA: 4.0**
Concentration: Data Science

**Amity University, Noida (U.P.), IN** **August 2020**
*Bachelors of Technology in Computer Science & Engineering* **GPA: 3.7**

**RELATED COURSEWORK:** Artificial Intelligence, Machine Learning, Digital Image Processing and Computer Vision, Operating Systems, DBMS, Distributed Systems, Computer Architecture, Analysis and Design of Algorithms, Data Structures.

## SKILLS

**Languages:** [Proficient] Python, Java, C/C++ | [Intermediate] R Programming, Scala, C#, ASP, HTML/CSS
**Database Management:** [Proficient] MySQL, MSSQL, PostgreSQL, NoSQL
**Data Science Libraries:** TensorFlow, Keras, Scikit-Learn, OpenCV, NumPy, Pandas, MatplotLib, PyTorch, PySpark, SciPy, NLTK, spaCy, StreamLit | Data Pre-processing, Deep Learning, Natural Language Processing, Time Series Analysis
**Data Visualisation**: Tableau, Power BI, Python (MatplotLib, Seaborn, Bokeh), R (ggplot), Excel
**Cloud based Technologies:** Azure, AWS

## RELEVANT EXPERIENCE

**Associate Software Engineer | Amdocs LLP.** | Gurugram, HR, India **December 2020 – April 2021**

- Maintained Legacy applications in the Telecom Industry fixing security vulnerabilities, supporting the Production Environment, and adding new features as per client requirement i.e., AT&T.
- Kickstarted migration to Cloud Platform (Microsoft Azure) for various .NET applications
- Attained good knowledge of Cloud Technology – Azure, during the Tenure.

**Summer Intern | Dasmic LLC.** | Houston, TX, USA **May 2019 – June 2019**

- Developed machine learning models for improving Image Recognition using Convolutional Neural Networks.
- Built a Convolutional Neural Network (CNN) model used in image recognition systems for classifying images from one of the widely used image datasets CIFAR-10 and CIFAR-100.
- Increased the CNN model accuracy from an initial 52% to 95%.

## CERTIFICATIONS

- **Microsoft: Azure Fundamentals (AZ-900)** **2021**
- **Microsoft: Azure Developer: Associate (AZ-204)** **2021**
- **Microsoft: Azure Data Fundamentals (DP-900)** **2021**
- **Amazon: AWS Cloud Practitioner** **2021**
- **Coursera: DeepLearning.AI TensorFlow Developer** **2021**
- **Google: TensorFlow Developer Certificate (Pursuing)**

## LEADERSHIP EXPERIENCE

**Mentor | DeepLearning.AI LLC** **September 2021 – Present**

- Selected as a Mentor for the 'DeepLearning.AI TensorFlow Developer Professional Certificate Specialization' on the DeepLearning.AI platform.
- Executed Alpha Testing for the course and aided in maintaining repositories.
- Aiding learners in resolving their queries/issues and guide them in the discussion forums.

**Graduate Assistant: Technology Services | UNCC** | Charlotte, NC **September 2021 – Present**

- Assisting the Office of Disability Services with tasks related to Information Technology and Assistive Technology.

## PROJECTS

**Multi-Layer Cluster based Routing Protocol for UWSNs**

- Developed an efficient Routing Protocol for Underwater Wireless Sensor Networks using MATLAB. The MATLAB simulations of the proposed protocol was compared against Depth Based Routing protocol (DBR) and

Weighting Depth and Forwarding Area Division DBR protocol (WDFADDBR). The work was done for Major Project as part of the undergrad course curriculum.

### Convolutional Neural Network for Image Recognition and Classification

- Developed an image recognition and classification model using Convolutional Neural Network with PyTorch library on CIFAR-10 and CIFAR-100 datasets. Research paper based on data collected published in International Journal of Engineering and Advanced Technology.

### Statistical Data Forecasting using Data Mining Methods

- The data mining methods used in our project is time series analysis. The model used for forecasting and analysis of data is ARIMA (Auto-Regressive Integrated Moving Average) model, which is highly accurate and precise. The literacy data of Chhattisgarh obtained from census website of India gives the data from 1961 to 2011.

### CNN and OpenCV project for Real Time Sign Language Translation

- Developed a Convolutional Neural Network for training of the American Sign Language data-set containing images for each Alphabet of the English Language. The model used OpenCV for analysing and testing hand gestures.

## PUBLICATIONS

**Forecasting of Literacy Rate Using Statistical and Data Mining Methods of Chhattisgarh** **2019**

Presented at 'The 5th International Conference on Recent Developments in Science, Engineering and Technology'. The research paper is based on forecasting of literacy rate with the help of data mining methods. The data mining methods used in our project is time series analysis.

**Implementing Convolutional Neural Networks for Simple Image Classification** **2019**

Published in International Journal of Engineering and Advanced Technology. The manuscript is based on the work carried out while working as an intern at Dasmic, LLC. This paper gives a thorough overview of the working of our CNN architecture with its parameters and difficulties.