

# PARAM NAGDA

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## EDUCATION

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### Indiana University

Bloomington, IN, USA

Master of Science, Data Science, GPA: 3.6

May 2023

Relevant coursework: Elements of Artificial

Intelligence, **Data Mining**, Introduction to Statistics, **Applied Algorithms**

### NMIMS University

Mumbai, India

Bachelor of Technology, Electronics and Telecommunication

May 2021

Relevant coursework: Programming for Analytics (SAS), **Business Analytics and**

**Visualization**, Probability and Random Processes, Fuzzy Logic and Neural Networks, Data Encryption and Network Security, **Object Oriented Programming**

## TECHNICAL SKILLS

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**Languages:** C, C++, Java, MATLAB, **Python**, R, HTML, VHDL, CSS, **JavaScript**, **SQL**

**Analytics:** SAS Studio, R Studio, Power BI

**Tools:** Adobe Creative Cloud (Photoshop and Illustrator), Xilinx Vivado, Arduino, Raspberry Pi, Git, Ansys HFSS, NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, SciPy, MS Office Suite, Code Blocks, Python IDLE, AutoCAD, Jupyter, Tina Pro, Eagle, XCTU, Keil, TASM, Google Colab, Anaconda, Eclipse, Google Analytics, Visual Studio

**Certifications:** Python for Data Science and Machine Learning Bootcamp (Udemy, August 2020), R Programming by John Hopkins University (Coursera, October 2020), Deep Learning by deeplearning.ai (Coursera, November 2020), Google Analytics for Beginners (Google, October 2021)

## ACADEMIC PROJECTS AND PAPERS

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### Salesforce Marketing Analytics

January

2022 - Current

*Technologies used:* Salesforce Datorama, Google Analytics

- Currently mining Indiana University's social media data and analyzing it using Salesforce Datorama and Google Analytics to deliver recommendations to improve Salesforce Datorama's features and offerings

### Accident Detection and Damage Recognition System

October 2021 -

December 2021

*Technologies used:* Python (Libraries – tensorflow, pandas, numpy, matplotlib, sklearn, keras) and Google Colab

- Developed a **detection and classification, ML-based image processing model achieving an 83% accuracy** to recognize damage severity on vehicles aiding insurance companies in faster claims management

### CPU Usage Forecasting using Various Models

August 2020

– March 2021

*Technologies used:* Python (Libraries – pandas, numpy, matplotlib, pmdarima, sklearn, keras) and Google Colab

- Implemented various predictive algorithms using Time Series Analysis to forecast the CPU Usage **achieving the lowest error of 1.1% with LSTM model** to adjust the limit for users according to their requirements

### Evaluation of Various CNN Network Architectures for Retinal Images

January 2020

– March 2020

*Technologies used:* Python (Libraries – pandas, numpy, matplotlib, os, sys, sklearn, keras), Jupyter Notebook

- Evaluated 9 different CNN architectures and inferred MobileNet to possess the best **accuracy of 84%** in terms of its ability to classify diabetic retinopathy into 5 classes of severity
- Authored and presented a paper in ICSCSP, 2020 and published it in [Springer AICS Series](#) journal

### Product Line Analysis

February

2020 – March 2020

- Analyzed a data set containing information of various products using the visualization tools of SAS, utilizing several charts and graphs to make pertinent recommendations based on the demand of the products

### Bird Species Recognition

January

2019 – March 2019

- Designed a MATLAB program using Mel Frequency Coefficients (MFCC) **attaining a 90% accuracy rate** to predict bird species based on their voice

## CO-CURRICULAR ACTIVITIES

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### **International Ground Vehicle Competition, Michigan, USA**

July

2020 – April 2021

*Technical and Accounts Head*

- Led a team of 7 to construct a semi-rugged, autonomous, outdoor all-terrain vehicle successfully raising \$11,000 to present an in-depth report and represent India at Oakland University

### **Institute of Electronics and Telecommunication Engineers, India**

August

2019 – April 2020

*Digital Creatives Head*

- Responsible for creating digital marketing content resulting in a 60% increase in viewership through our online social media platforms