Niharika

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EDUCATION

M.S. in Information Technology –Arizona State University, US **Aug 2021 - Present**
B.Tech. in Computer Science – Gautam Buddha University, India **Aug 2016 - May 2020**
M.Tech. in Artificial Intelligence and Robotics– Gautam Buddha University, India **May 2020 - May 2021**

TECHNICAL SKILL

- **General Skill Set**: Data Visualization, Machine Learning, Deep Learning, Pattern Recognition, Database Structures & Algorithms, Statistical Analysis, Data Preparation, Quality Management, Agile Methodologies, Amazon Web Services
- **Languages**: Python, R, SQL, C++, Java.
- **Databases**: Microsoft Access, MySQL.
- **Tools and Technologies**: Power BI, REST, REST API, Git – Version Control, Postman, Github, RDBMS, HTTP/HTTPS, Tableau, SQL Server Management System, Visual Studio, AWS S3, AWS EC2, MS Excel,Jupyter, MS Project Manager, MATLAB, SAS.
- **Machine Learning Libraries**: Pandas, TensorFlow, NumPy, SciPy, Pandas, Matplotlib, Keras, SciKit-Learn, PyTorch.

PROJECT EXPERIENCE

- **Research Paper**: Niharika, Yadav.S., Sharma N.(2020) COVID-19: Face Mask Detector Using Deep Learning for Book chapter in Book entitled "Enabling Technology for Neuro-Developmental Disorders: From Diagnosis to Rehabilitation." (Accepted)
- **Research Paper**: Niharika, Tarar S. (2020) COVID-19: Social Distancing Detector for Springer CCIS series (SCOPUS Indexed Book Chapter) (Accepted)
- **Custom Kernels for Support Vector Machines**: The main objective of the project was to provide a comparative analysis.
  Code: https://github.com/Niharika291197/Custom-Kernels-SVM-
- **Chatbot**: Developed a Chatbot using Python and Customized Dataset .
  Code: https://github.com/Niharika291197/Chatbot
- **Real-Time Face Mask Detection**: Developed a real-time Face Mask Detection software in order to detect people not wearing masks, using Computer Vision.
  Code: https://github.com/Niharika291197/Face-mask-detector
- **Social Distancing Detector**: Developed a model to detect if a person is maintaining social distancing or not using OpenCV and Deep Learning.
  Code: https://github.com/Niharika291197/Real-Time-Social-Distancing-detector
- **Driver Drowsiness Detection**: Developed a model to check if the person is drowsy and then alerting by beeping an automatic alarm system using OpenCV and Deep learning.
  Code: https://github.com/Niharika291197/Driver_drowsiness_detection
- **Self-Driving Car**: Created software using open CV and Machine learning algorithms which makes the functioning of cars automatic according to the rules of traffic.
  Code: https://github.com/Niharika291197/Self-Driving-Car

EXPERIENCE

Tech Mahindra, India - Data Analyst **Jan 2021 - July 2021**

- Implemented a Python-based, language interpretation software for scanning and converting local scripts to English, and finally categorizing them.
- Developed a live dashboard using Python and Power BI, segregating employee data, using the SVM Machine Learning model to assist company promotions and reward cycles
- Developed a live monitoring tool using Power BI for a Fortune 500 US-based organization, to give insights into company sales and other analytics.
- Analyzed a business process to determine the needs and requirements of the firm to transform those into conceptual designs using Python and Power BI
- Actively involved in quantitative analysis and complex modeling to solve business problems, utilizing tools such as SQL Server for assisting in Data Modelling and Data Cleaning.
- Used Power BI visualization software to build high-quality dashboards to present findings in a clear and concise way.

Languages and Tools: Python, SQL, Power BI, Machine Learning libraries

INTERNSHIPS

Tech Mahindra, India - Data Analyst Intern **Dec 2018 - Jan 2019 | June 2019 - July 2019**

- For an established process center, conducted a business process analysis and identified important issues, gaps, and requirements.
- Proposed and developed key performance indicators (KPI) to management, which led to the execution plan.
- KPI reports on healthcare and insurance, as well as firm personnel data, were analyzed and created, allowing field service engineers and customer support centers to be closely monitored.

Languages and Tools: Python, SQL, Power BI, Machine Learning libraries.

Data Folkz, India - Data Science Researcher **Sept 2020 — Nov 2020**

- Utilized data science to develop action plans to reduce risk in decision-making while enhancing profitability.
- To anticipate the likelihood of equipment failure, create predictive models utilizing a variety of machine learning technologies.
- Develop methods for predictive analysis utilizing natural language processing and deep learning models.
- Actively handled dashboard creation using Tableau with an RDMBS based SQL database.

Languages and Tools: Python, SQL, Tableau, Machine Learning libraries

Indian Institute of Technology - Roorkee, India -Summer Trainee **July 2020 - July 2020**

- Successfully created a working Dashboard using algorithms pertaining to Machine Learning, Data Mining, Data Modelling, and Data Cleaning.

Languages and Tools: Python, SQL, Power BI, Machine Learning libraries

AWARDS & ACHIEVEMENTS

- Secured **8 certifications** in the fields of Business Intelligence and Data Analysis.
- Received an **award for good performance** at Tech Mahindra during the internship.
- Secured a **global rank of 461** at a competitive coding contest Python on the HackerRank platform.