

# AISHWARYA KALE

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## EDUCATION

University of Maryland Baltimore County

*Master of Science in Data Science*

Jan 2021 – Dec 2022

*Baltimore, MD, USA*

**GPA: 4.0**

Savitribai Phule Pune University

*Bachelor of Engineering in Computer Science*

Jun 2012 – Jun 2016

*Pune, India*

**GPA: 3.7**

## TECHNICAL SKILLS

**Language/DB:** Python, Java, HTML, MongoDB, SQL

**Developer Tools:** Jupyter, GitHub, VSCode, Tableau

**Competences:** Machine learning, Deep Learning, NLP

**Frameworks:** TensorFlow, Pytorch, Keras

**Big Data Tools:** Apache Spark, Hadoop

**Methodologies:** Waterfall, Agile

## PROFESSIONAL EXPERIENCE

**Research Assistant, University of Maryland Baltimore County, USA**

Oct 2021 – Present

**Technologies:** High Performance Computation, SLURM, Python, Unix Shell Scripting, Distributed Computing, Linux

- Aided a team of 4 researchers and system administrators of High-Performance Computing Laboratory to generate the use of HPC software/hardware along with managing software installs and configuration.
- Facilitated assistance to 100 HPC users including students by answering questions, resolving tickets, troubleshooting problems, guiding users, and resolving difficulties related to HPC software or hardware functionality.
- Designed the documentation for the university's website on sharing knowledge across 10 departmental groups and all the users for using HPC software.
- Summarized and demystified Parallel and Distributed processing for Machine learning and Deep Learning using frameworks like Keras, TensorFlow, Pytorch for users.
- Programmed and automated scripts resulting in speeding up the manual tasks by 90%.

**Data Scientist, Nitor Infotech Pvt. Ltd., Pune, India**

May 2019 – Dec 2020

**Technologies:** Python, SQL, Flask, Machine Learning, Object Detection, NLP, Chatbot, Deep Learning, AWS, Neural Networks

- Collaborated with a team of 5 for conducting data analytics and designing efficient machine learning models.
- Analyzed and processed complex data sets using advanced querying, visualization, and analytics tool like Tableau.
- Processed and labeled training dataset of 10,000+ images and built a neural network to identify car damage type using Tensor Flow. Trained RNN Inception model using transfer learning up to 80% accuracy.
- Deployed the car damage detection model in production with web-based UI for an insurance company for faster processing of users' claims cutting the process time by 10 hours a week.
- Implemented a hospital re-admission prediction model and web app to predict the re-enrollment of patients in the healthcare domain using Logistic Regression, Random Forest, SVM which catches up to 70% of re-admission cases.
- Built an event management chatbot for efficient user experience using RASA.
- Delivered and communicated performance results and insights to executive teams using reports, dashboards, documents on regular basis.

**Software Developer, Atos Syntel, Pune, India**

Jul 2016 – Apr 2019

**Technologies:** Java, SQL, AngularJS, OOP, XML, web services, unit testing, Linux, MySQL, Eclipse, HTML, CSS, IoT

- Programmed and updated enhancements to the application modules using Java, AngularJS.
- Coordinated with a team of 15 in planning, requirement gathering, designing, implementing applications, unit testing.
- Created a customer appliance management web portal hosted in Whirlpool Cooperation Cloud environment based on IBM's cloud technologies deployed on 1000 machines.
- Mentored a team of 2 junior engineers of the team on project functionality to analyze and resolve application defect.
- Operated on Linux environments to troubleshoot application issues in production.

## ACADEMIC PROJECTS

**NOAA Weather Forecasting, UMBC**

Apr 2021

**Technologies:** Python, Random Forest, LSTM, Seaborn, SKlearn, Keras, Google Colab, Matplotlib, NumPy, Pandas

- Developed a weather Forecasting model predicting 24 -hour temperature from the previous week's data using LSTM and Random Forest.

**Effect of Twitter Sentiments on Stock Market**

Dec 2021

**Technologies:** Python, Keras, NLTK, LSTM, Viola, Microsoft Office, PyCharm, Google Cloud, SKlearn

- Performed Descriptive Analysis for determining the correlation between sentiment values of Twitter data with different stock price attributes of 5 top companies and implemented stock price forecasting model using RNN.