

# NIVETHA BALASUBRAMANIAN

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## Skills

**Languages** - English | Hindi | Tamil

**Programming** - Python | Java

**Softwares** - VS Code | Google Cloud Platform | Jira Software | Confluence | OpenCV | Matlab

**Deep Learning Frameworks** -

Pytorch | Tensorflow | Keras

**Hobbies** - Badminton | Singing

**Soft Skills** - Teamwork | Leadership

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## Education

**University of Waterloo, Canada**

Masters in Management Sciences

Sept 2022 - Present

**Indian Institute of Technology,**

**Madras, India**

Diploma in Data Science - CGPA: 8.8

Dec 2020 - May 2022

**SSN College of Engineering ,**

**Affiliated to Anna University, India**

Bachelor of Technology - CGPA: 8.63

Information Technology

July 2014 - May 2018

**DAV School, Chennai, India**

Class XII (State Board) - Score: 97.25%

2013 - 2014

Class X (CBSE) - CGPA: 10/10

2011 - 2012

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## UG & Diploma Courses

Matrices & Calculus

Complex Analysis & Differential Equations

Probability Theory & Random Processes

Statistics - Basic to Advanced

Data Structures and Algorithms

Database Management Systems

Computer Networks

Artificial Intelligence

Cloud Computing

## Work Experience

**Goldman Sachs, Hyderabad** - *Technology Analyst*

August 2021 - July 2022

- Working closely with vendors and stakeholders to understand the data requirements and devise an ETL pipeline to facilitate the movement from various data sources to a unified platform

**HSBC Technology India, Pune** - *Senior Software Engineer*

July 2018 - August 2021

- Worked on building a data science platform on Google Cloud Platform for deploying models and making the reports accessible on Google Data Studio.
  - Developed APIs for Cross border payments and tracking them by integrating Swift GPI System; Payment Initiation, Membership validation and Payment cancellation use cases for Saudi British Bank.
  - Worked on Time Series data to perform Client Clustering, Product Recommendation and Invoice Matching using Machine Learning Models in Python.
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## Projects

**Optimised Feature Selection for Early Cancer Detection**

September 2021

Analysed the performances of Genetic Algorithm combined with classification techniques like Graph Neural Network, Artificial Neural Network, to categorise Benign/Malignant Cancer Cells and devised an optimised Feature Selection technique. Work got recognised at National Conference on Current Trends in Smart and Modern Techniques NCCSMT18. Work has been published in Genetika journal.

**Recognition of an Animated actor and Action in a video using optimised pre-trained models**

November 2020

Comparing the performances of pre-trained models such as VGG16, VGG19 with CNN for extracting features from video to identify actors and their actions to perform classification. VGGNET produces better accuracy than CNN model due to its ability to classify the animated images too.

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## Extracurricular

**Corporate Social Responsibility - HSBC** - *Volunteer*

Volunteered for corporate social events on spreading awareness on financial literacy among students and young professionals.

**Women in Data Science Pune** - *Volunteer*

Volunteered for conference and monthly events as a part of Women in Data Science group, Pune.

**Teach A School** - *Volunteer*

College initiative to educate under-privileged school children over weekend. Taken classes for Science and Maths to High School students.