NIVETHA BALASUBRAMANIAN

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EDUCATION

IIT Madras Online BSC Degree in Data Science, Chennai	**Dec 2020 - Present**
Pursuing Diploma in Programming and Data Science	**CGPA - 8.875/10**

SSN College Of Engineering, Chennai	**June 2014 - April 2018**
Affiliated to Anna University	**CGPA: 8.63/10**
Bachelor of Technology in Information Technology	**University Rank: 29/4049**

WORK EXPERIENCE

Goldman Sachs, Hyderabad   August 2021 - Present

Technology Ananlyst - Data Engineering

· Working closely with vendors and stakeholders to understand the data requirements and devise an ETL pipeline to facilitate the movements from various data sources to a unified platform
· Working on Data Analytics to retrieve meaningful insights from the data.

HSBC Technology India, Pune   March 2021 - August 2021

Senior Software Engineer - Data Science and Engineering

· Worked on building data science platform on Google Cloud Platform for deploying models and make the reports accessible on Google Data Studio
· Worked on graph-based problem to identify the pattern of currency movements on swift transfers to optimise the time in transit between interim banks

HSBC Technology India, Pune   May 2020 - March 2021

Software Engineer - Devops Engineering and API Development

· Developed APIs for Cross border payments and tracking them by integrating Swift GPI System; Payment Initiation, Membership validation and Payment cancellation usecases for Saudi British Bank.
· Developed a state of art Devops solution by containerising tier0 platform for migrating to kubernetes with hybrid-cloud approach.

HSBC Technology India, Pune   July 2018 - April 2020

Software Engineer - Data Engineering

· Developed the infrastructure and pipeline needed to run the Machine Learning Models on Google Cloud Platform, employing Ansible and Jenkins through Terraform scripts.
· Worked on Time Series data to perform Client Clustering, Product Recommendation and Invoice Matching using Machine Learning Models in Python.

PROJECTS

Optimised Feature Selection for Early Cancer Detection

* Analysed the performances of Genetic Algorithm combined with classification techniques like Graph Neural Network, Artificial Neural Network, Logistic Regression etc., on the early categorization of Cancer Cells as Benign/Malignant and devised an optimised Feature Selection technique based on

the research.Work got recognised at National Conference on Current Trends in Smart and Modern Techniques NCCSMT18.

Recognition of an Animated actor and Action in a video with Deep Learning

* Compared the performances of pre-trained models such as VGG16, VGG19 for extracting features from video to identify actors and their actions to perform classification.

Financial Budgeting App using Federated Learning for Datathon at HSBC

* Topped as one among the Top 50 teams out of 200 in Semi-Finals. Worked on building a Financial Budgeting mobile app for retail customers using cutting edge Federated Learning technique to ensure the privacy of transaction data. Built a time series model to perform spending pattern analysis and recommendation system, which were trained globally and tested on the edge devices to ensure privacy.

Import & Export Trade Recommendation as a part of Nation-wide Datathon at HSBC

* Secured second position among 60 teams.Built a Sequential model using Keras to develop a trade recommendation system on Google cloud platform using the historical trade data and other features to fit the Gravitation model.

Crop Retail Price Prediction system for Farmers as a part of Facebook-sponsored HerTech Hackathon

* Built a Neural Net model using the historical crop data prices with weather and soil factors to estimate the retail prices.Recognised as one of the top 3 teams among 100+ teams.

COURSES AND CERTIFICATIONS

* Certified Oracle Java Associate Level Programmer.

* Completed Data Science Professional and Advanced Certificate offered by IBM and Coursera.

* Completed NPTEL Courses on Application Development, Machine Learning and Blockchain.

* Completed Machine Learning and Deep Learning Bootcamps.

ACHIEVEMENTS

* Recognised with Pat on the Back and the Most Consistent Performer award at HSBC.

* Rewarded with Silver medal and scholarships for academic excellence at SSN.

LANGUAGES

C, C++, Java, Python, HTML, CSS, Javascript, SQL, Groovy, Mule, Terraform

EXTRA CURRICULAR ACHIEVEMENTS

* Volunteered for CSR activities at HSBC.

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