

Natasha Shereen Benita

✉ natasha.dan7@gmail.com ☎ +49017648987197 📍 Cottbus,DE 📅 24/11/1998

🌐 linkedin.com/in/natasha-shereen-benita-132b70227 🐙 github.com/Natdan24

🆔 <https://orcid.org/0000-0001-9055-459X>

Profile

Master's student in Artificial Intelligence with a strong foundation in Python development, backend engineering, and automation. Experienced with SQL, Linux environments, and automation frameworks. Demonstrated ability to build data pipelines and streamline business processes using scalable solutions. Currently working on a personal portfolio using React to showcase full-stack development skills. Proactive and self-motivated, with strong collaboration skills and a passion for solving real-world problems through technology.

Education

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|---|-------------------------------|
| M.Sc Artificial Intelligence , Brandenburg University of Technology | 2023 – present |
| Relevant Course Work: Explainable Machine Learning, Causal Data Science ,Research, Documentation | Cottbus, Germany |
| B.Tech. Computer Science and Engineering , Sathyabama Institute of Science and Technology | 2016 – 2020 Chennai, India |

Skills

Programming

Python,SQL, R,React (in progress)

Testing & Automation:

H2O AutoML, Test Automation

AI and ML Frameworks

Scikit-Learn, TensorFlow,Keras

Other

MATLAB, MS Office, PowerBI

Soft Skills

Communication, Collaboration, Problem-Solving,
Self-Motivation, Creativity

OS & Tools:

Debian GNU/Linux, Shell Scripting, Git, GitLab CI

Databases & Query Languages:

SQL, MySQL, PostgreSQL (basic), Data Modeling

MS Excel

Pivot Tables, VLOOKUP, Conditional Formatting,
Data Validation, Basic Macros

Professional Experience

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|---|-------------------------------------|
| Software Developer Intern , Shiash Info Solutions Private Limited | 10/2020 – 01/2021 Chennai, India |
| <ul style="list-style-type: none">• Trained in JAVA domain using Eclipse• Worked with MySQL database (Linux shell scripting)• Developed mini projects in Java• Created and optimized SQL queries for backend operations | |
| Web Development Intern , Snehama Business Solutions Pvt.Ltd, Chennai | 12/2018 Chennai, India |
| <ul style="list-style-type: none">• Focused on Enterprise Resource Planning• Worked on Inventory management applications for businesses• Collaborated on backend logic and data flows for ERP and inventory systems. | |

- Developed a Prototype which can be used by a multi-brand home appliances dealers to manage and support their sales across various outlets on their smartphones , resulting in a 20% reduction in manual data entry.

Faculty/Trainer, CMSDI Academy

11/2020 – 07/2021

Chennai, India

- Used Excel for tracking student data and automating reports.
- Taught English, microfinance, customer service, professional skills, workplace readiness, and MS Office for underprivileged students
- Event organizer at a workshop Last Mile Connectivity for MSW students, DG Vaishnav college,

Part-time trainer, WordSmith Ielts Academy

02/2020 – 12/2022

Trained Students for the IELTS Exam

Chennai, India

Projects

Personal Portfolio Website (In Progress), React, HTML, CSS, GitHub Pages

present

- Building a responsive portfolio website using React to showcase my projects and skills
- Integrating interactive UI components and working with reusable components and hooks
- Demonstrates frontend-backend integration and modern design practices

Patient Readmission Prediction using H2O AutoML

10/2024 – 02/2025

- Built scalable data pipeline using H2O AutoML; automated feature engineering and model evaluation processes.
- Implemented **H2O AutoML** (Machine learning Automation) to predict **critical patient discharge** and **hospital readmission risks** using the **eICU dataset**.
- Preprocessed and cleaned Data set
- Performed Exploratory Data Analysis, **feature engineering**, **class imbalance handling**, and automated model selection, achieving **99% accuracy (AUC = 1.0)** with **Gradient Boosting Machine (GBM) model** being the Best performing Model.

Music Instrument Classification using Traditional Methods

09/2024 – 02/2025

- Developed a **GMM-SVM hybrid model** for classifying musical instruments, leveraging **MFCC feature extraction** and **probability-based modeling**.
- Optimized classification accuracy through **dimensionality reduction (PCA/LDA)**, achieving **83% accuracy** with traditional methods and **91% with LSTM models**.
- Performed Evaluation Metrics

Cervical Cancer Prediction using Machine Learning

09/2019 – 06/2020

- Implemented **Gaussian Mixture Models (GMM)** and **Probabilistic Neural Networks (PNN)** in MATLAB for early cervical cancer detection.
- Designed **feature extraction techniques** using Histogram Division, Entropy Measurement, Lab Color Space, and **GLCM** to enhance classification accuracy.
- Development of early cancer screening and detection

Publications

Survey of Cervical Cancer Prediction Using Machine Learning, Springer [↗](#)

07/2021

Awards

Best Paper award, Sathyabama University 06/2020
Received Best Paper award and participation certificate for paper and presentation on cervical cancer during 'National Conference on Computational Intelligence and Data Science' organized by Sathyabama University, at NCCIDS (June 2020)

Courses

Intoduction to Data Science virtual internship, Commonwealth Bank (Forage) 03/2025

- Designing a Database
- Data Analyses Approaches
- Data Aggregation and Anonymisation
- Excel – Advanced (Pivot Tables, Lookup Functions, Macros)
- Designed a relational database schema simulating a bank's internal system. Gained exposure to financial data workflows and anonymization practices.

R programming for Data Science and Analysis, Udemy 06/2022
• Advanced Visualization with GGLOT2 ,Data Frames

Level 1 & 2, Machine Learning, Lema Labs IIT Madras 09/2020 – 02/2021
Chennai, India
• Worked on Recommendation systems
• Types of Regression, Supervised and Unsupervised Algorithms , Python Programming

IBM Generative AI for Executives and Business Leaders, Coursera 06/2024
• Explored applications of AI in business administration, asset tracking, and decision-making.

Digital Marketing and E-Commerce Certification, Google present

Languages

| English | German |
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| C2 Ielts | A2 |

Co-Curricular Activities

Organized and supported a workshop on Block Chain: The Next Big Thing, Sathyabama University (February 2019)

Participated in club events and activities as member of Mozilla club at Sathyabama University, (August 2018 to May 2020)

Webinars
Business Resilience and Risk Management, IEEE Student branch, Sathyabama University, June 27 th 2020

Big Data – Data Analysis, SRM Valliammai university, October 10 th , 2020

Data Analytics, IEEE Student Branch Sathyabama University, October 31 st , 2020