

# Hingis Martin Nadar

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## EDUCATION

### Purdue University, West Lafayette

M.S. Computer Science. GPA: 3.28/4.0

Secured second place in the 2024 InnovateHer Hackathon, developed solutions which classified recyclable materials using CNN model.

### Fr Conceicao Rodrigues Institute of Technology

B.E. Computer Engineering, GPA: 3.8/4.0

West Lafayette, IN

Jan 2023 - Dec 2024

Mumbai, India

June 2015 - May 2019

## SKILLS

**Frameworks/Languages:** C++, Python, Shell, Java, JavaScript, PL/SQL, Oracle Forms, C, PHP, HTML, Linux, React.js, Vue.js

**Cloud & DevOps:** AWS, Azure, Kubernetes, Docker, Jenkins, Firebase, Databricks, CI/CD, SRE, Agile, Scalable Architecture

**Database & Cloud:** Oracle, MySQL, PostgreSQL, GCP, AWS, Databricks, HANA, Hadoop, Kafka, Big data, cloud computing

**Data & Analytics:** Power BI, Databricks, MySQL, PostgreSQL, Oracle, Database Optimization, NFS, Hadoop, JIRA

**ML/AI:** Python (Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch), Hugging Face Transformers, BART, TF-IDF, BM25Q-Learning, Dueling Deep-Q Networks, PGM, Reinforcement Learning, TF-IDF, Vector Space Model, NLP, LLMs, GIT, Vs studio

**ETL/Security Tools:** SAP HANA, SAP BO, SAP BODS, Hyperion, OpenSSL, risk management, Web & network security.

## WORK EXPERIENCE

### Mechanical Department, Purdue University

Web Support Assistant

West Lafayette, IN

Mar 2023 - Dec 2024

- Engineered a **Python**-based checkout system, optimized data handling & improved response times by **90%**, ensuring scalability.
- **Elevated security** by developing cross-platform applications using **Python Flask**, ensuring adherence to best security practices.
- Reviewed **PHP** code and converted it into a **scalable cross-platform Python application**, boosting performance and reliability.

### Data Mine, Purdue University-BASF

Teaching Assistant

West Lafayette, IN

Aug 2023 - May 2024

- Built **modified Naïve Bayes** algorithms for market share prediction, achieving a **72%** accuracy using Python & Azure Databricks.
- Engaged deeply with product datasets to iterate on model training, conducted agile based sprint meeting among the stakeholders.

### Tata Consultancy service

System Engineer (Cloud support / Database administrator/ ETL administrator / Linux admin)

Mumbai, India

Jun 2019 - Dec 2022

- Led **SAP BO, Hyperion, and risk mitigation** teams, supporting 14 subsidiary companies and ensuring 99.9% uptime.
- Participated in reviews with stakeholders & migrated on-premises infrastructure to **AWS**, reducing infrastructure costs by **40%**.
- Fixed various issues by debugging, tracking, & resolving problems through analysis of network, and service operations impacts.
- Developed an optimized **job scheduling** algorithm for distributed computing environments, reducing execution time by **28%**.
- Managed **ETL workflows** using SAP BODS, BO, & Hyperion across SAP HANA, Oracle & PostgreSQL improving data integrity.
- Managed **Hadoop** clusters, **NFS** storage systems, DR system, optimized resource allocation, ensured high availability & scalability.

### Fr Conceicao Rodrigues Institute of Technology

Web Developer

Mumbai, India

Jan 2018 - Jun 2019

- Developed college website pages using **CakePHP framework with MySQL database**, increasing website traffic by **50%**.
- Led AICTE approval-driven website restructuring, **researched on HMI techniques**, improving compliance & mentoring juniors.

## ACADEMIC AND RESEARCH PROJECTS

### Mitigating SEO Manipulation through BART-based Document Summarization

Jan 2024-May 2024

- Developed a document summarization system using **BART models** and advanced ranking algorithms (**TF-IDF, BM25**).
- Achieved a **30%** improvement in search result authenticity by leveraging custom accuracy calculators evaluate predictions.

### Cloud LuckyDraw Challenge: Scaling Strategies with Kubernetes and AWS

Aug 2023 - Dec 2023

- Developed an Reactjs application and implemented a CI/CD pipeline for seamless deployments, thus reducing deploying time by 50%.
- Utilized Kubernetes for orchestration, significantly enhancing scalability and performance, leading to a 40% improvement in application responsiveness. Also, employed AWS CloudWatch for monitoring, achieving 99.9% application uptime.

### Reinforcement Learning for Pong Game

Aug 2023 - Dec 2023

- Developed an agent using deep Q-learning, dueling DQN & policy gradient methods, enhancing decision-making by **25%**.
- Reduced training time **by 30%** through neural network optimization while enhancing gameplay accuracy and performance.
- Validated theoretical frameworks by comparing performance, pinpointing the best approach for real-time decision-making.

### Document Database Management System (Inspired by MongoDB & CouchDB)

Jan 2023 - Apr 2023

- Built a document database system with JSON-to-BSON data conversion, B-tree indexing, and optimized query evaluation.
- Designed distributed storage & retrieval mechanisms, improved data access latency, leading to better query response time.

### Heart abnormality detection using deep Learning and artificial intelligence

Jun 2018 - Jun 2019

- Created a **web & mobile application** with **Firebase** and a custom heart rate monitor device using the **AD8232 ECG sensor**.
- Employed **CRNNs & autoencoders** for predictive healthcare analytics, achieving a **90%** accuracy rate in heart abnormality prediction.
- Incorporated **Agile methodology** & deployed the solution on the AWS platform, for scalability and reducing latency by **30%**.

## CERTIFICATE

100 Days of code: The complete python pro bootcamp for 2023(Udemy: June 2023)