Adithya Balaji

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PROFILE

Experienced software engineer with international exposure and commitment to detail oriented, accurate work and background in diverse areas such as Artificial Intelligence, Computer vision, Data Engineering, Robotics and DevOps

PROFESSIONAL EXPERIENCE

Embedded AI Developer - R&D   Ulm, Germany
Huber Automotive AG   Dec 2022 - Present

- Developed edge AI models optimized for microcontrollers and processors, using frameworks such as TensorFlow Lite, PyTorch, and Explainable AI (XAI) techniques to improve transparency and accountability of models.

- Utilized computer vision techniques, including object detection and tracking, to enable intelligent perception in robotics and edge AI applications.

- Conducted sensor calibration and simulation to enable accurate and reliable perception in robotics and edge AI applications.

- Integrated with the Robot Operating System (ROS) to enable efficient development and deployment of robotics and edge AI applications.

- Possess experience with Adaptive Autosar, ASPICE, and ISO 26262, enabling development of safety-critical systems for automotive and other industries.

AI Research Intern   Nantes, France
Reliev   Dec 2021 - September 2022

- Conducted extensive research on Epilepsy detection for bibliography purposes.

- Utilized real-time time-series databases for signal processing and developed machine learning models to detect seizures in epileptic patients.

- Extensive experience with feature engineering and selection techniques.

- Designed unsupervised learning models and neural networks to create noise and seizure prediction algorithms.

- Performed Unit tests and built CI/CD pipelines to ensure the quality and efficiency of codebase.

- Skilled in Git, DevOps, Docker, and Linux-based development.

- Built interactive visualizations and dashboards using Plotly and Dash to display and interpret results.

Data and Automation Engineer   Chennai, India
EMIS Health   Dec 2017 - Dec 2019

- Developed Machine Learning models to analyze speech input of emergency calls for NHS, United Kingdom.

- Worked on multiple Data Science and Analytics projects and integrated them with Datalake, delivering actionable insights to customers.

- Extensive experience with Big Data technologies such as Apache Spark, Kafka, and Airflow, including testing data ingestion processes.
- Proficient in working with both SQL and NoSQL databases, including SQL Server, Postgres, Presto, and DynamoDB.
- Developed and implemented QA automation tests utilizing FlaUI, xUnit, Specflow, and Cucumber with C# for .NET applications.
- Skilled in working with various tools and platforms including AWS, Docker, Azure DevOps, CI/CD, Atlassian, and JIRA X-Ray

Associate Software Engineer   Chennai, India
Accenture   Dec 2016 - Dec 2017

- Conducted analysis of large-scale telecommunications data utilizing Data Warehousing and ETL techniques.
- Created automation frameworks using Python and Selenium to increase testing efficiency and accuracy.
- Experience with various tools such as Splunk, Tableau, etc., for data visualization and analysis purposes.
- Utilized HP ALM for project management purposes, ensuring that projects were completed on time and within budget.

EDUCATION

Ecole centrale de Nantes, France   Jan 2020 - Sept 2022
M.Sc Advanced Robotics and AI

Anna University, India   Aug 2012 - Apr 2016
Bachelor of Engineering - Automobile Engineering

TECHNICAL SUMMARY

Python and AI	●●●●●
Artificial Intelligence	●●●●●
Data engineering	●●●●○
CI/CD and DevOps	●●●●○
Computer vision, ROS, Linux	●●●○○
C++, C#	●●●○○

CERTIFICATIONS/ WORKSHOPS / EXTRAS

Foundation Masters in Control and Robotics	Centrale Nantes
Machine learning scientist with python	DataCamp
Data Scientist Nanodegree	Udacity
AI winter school 2021	MIAI Grenoble and PRAIRIE
HackZurich 2020	Hackathon

LANGUAGES

English	Bilingual
French	Intermediate
German	Elementary
Tamil	Bilingual

REFRENCES

Prof. Olivier Kermorgant   Associate Professor of Robotics at Centrale Nantes
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Prof. Eric Le-Carpentier   Professor of Signal Processing at Centrale Nantes
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