

Contact



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Skills

Languages

SQL (MySQL)

Python (PySpark 3.x)

R

Markdown

Developer Tools

Git

Linux shell

Jupyter notebook

Visual Studio Code

Amazon Web Services

Microsoft Azure

Analytics & BI

Microsoft Excel

Microsoft Power BI

Tableau Desktop

Education

Bharathiraja Muthurajan

Data platform & AI engineer

Professional Summary

Certified data analyst with more than five years of experience as a researcher in India's top-ranking education institute.

Comprehensive knowledge of building data analytics pipelines on on-premise and cloud platforms for real-time descriptive and predictive analytics. Experience includes programming languages like SQL and python and analytics business intelligence tools like Tableau and Power BI. Project management experience collaborating across IT services companies and research labs to deliver on-time and industry-compatible research outputs.

Experience

Data Engineer	BCI*April 2023 – present	Remote, India*
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Data Analyst	IITM*Aug 2016 – Apr 2022	Chennai, India*
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IIT Madras	*Graduate Studies**Apr 2022	Chennai, India*Research in traffic state estimation and sensor development	(Research Scholar) Published 6 peer-reviewed journal articles on the analysis of traffic sensor data using descriptive and predictive analytic tools Tableau, SQL, and Python
Data Science			
Image processing			Developed 2 traffic scanners using Wi-Fi and LiDAR sensor technology with Linux OS and Python
Real-time traffic data			
FH Technikum Wien	*Master of Science**Jul 2016	Vienna, Austria*Intelligent Transportation Systems	Designed and developed data analytics pipelines for in-house traffic sensors with batch and stream processing using Spark, Microsoft Azure services, and reporting using Tableau
Data Analysis			
Sensor development			
University of St Andrews	*PG Diploma**Nov 2013	St Andrews, Scotland*Networks and Distributed Systems	Migrated previous generation sensor data pipeline consisting of over 400 devices from on-premise to AWS cloud infrastructure improving sensor operation reliability by more than 15%
Cloud computing			
Programming			
VCET <i>Bachelors in Engineering Jun 2012 Madurai, India</i>			Operated as the point of contact for 2 industry funded projects, coordinating deliverables across 2 research labs, and 9 scholars with on-time project closure
Electronics and Communication			
Certifications			
Tableau Certified Data Analyst			Managed 8 field technicians in the maintenance of a total of 590+ traffic sensors, provided them with operational dashboards, and created performance incentives
Power BI Data Analyst Associate			
Google Data Analytics Certificate			Implemented continuous monitoring of lab developed

Databricks Certified
Associate Developer
AWS Certified Developer -
Associate

sensors using operational
dashboards and reports using
Power BI

Spearheaded the successful
retrieval of 240 transit vehicle
location sensors within 6 months

Mentored 4 technical project staff
and undergraduate researchers
on traffic data analysis projects

Devised 2 image processing
software for vehicle trajectory
tracking and counting using
Python

Orchestrated international data
collection project in-person in
India and United States

Collected 30 days of naturalistic
pedestrian behavior data in
collaboration with Austrian road
safety board