



# MAHESH KUMAR S

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🏠 Munich, Germany

Master Thesis Student @ BMW Group | AWS  
Certified Data Engineer | AWS Certified  
Developer

🌐 <https://www.linkedin.com/in/smk25/>

## ► CERTIFICATIONS

- AWS Certified Developer Associate
- AWS Certified Data Engineer Associate
- AWS AI Practitioner

## ► EDUCATION

Masters in Computer Science with AI and Data Science, TH Bingen  
2025, Grade: 1.3

Bachelors in Information Technology, PSG College India 2018, Grade: 2.0

## ► SKILLS

1. Programming Languages: Java, C, C++, Python,
2. Services: Datadog, Wiz, Jira, confluence
3. IaC: Terraform, Cloud Formation, SAM
4. Build/CI/CD: Ant, Maven, Git, Jenkins, Git actions
5. Testing Frameworks: Pytest, Unit test
6. Databases: MongoDB, MSSQL, Oracle
7. Agile Environment: Adaptive Collaboration

## ► LANGUAGES

- English (C1)
- German (A1)

## ► PROFILE

Developer and data strategist specialized in cloud technologies and data architecture. Expertise in software development, transitioning data frameworks, optimizing cloud costs, and enhancing data management. Proficient in **AWS**, **Python**, Java, Docker, and **CICD**.

## ► WORK EXPERIENCE

### Research on Data Mesh in AWS

BMW Group, Munich | Oct 2024 – Mar 2025 (Thesis Grade: 1.0)

- Probed **decentralized data management strategies**, presenting a plan to stakeholders detailing how the company can potentially avoid cloud storage costs of 70% in future.
- Executed a proof-of-concept in AWS Athena federated query to analyze several GBs of data in Azure ADX, reducing the necessity to transfer the data to AWS.
- Proposed a shift from centralized role management to decentralized dynamic role management for access control.

### Data Analysis and Data Engineering Internship

BMW Group, Munich | Apr 2024 – Sep 2024

- Collaborated with a diverse team to develop an Adoption Rate Monitoring System using AWS Glue, (SQL) QuickSight, Docker and **Python Boto3**. Tracked 10,000+ users and driven increased product adoption.
- Automated an AWS-based Confluence archiving system **statistically** using **Lambda**, **Python**, and **Terraform** to manage 1,700+ pages and archived outdated content.
- Analyzed a team blockage graph using **Python (NetworkX)** and **Jira API**, visualizing blockages across 10 teams.

### Software Developer

MicroFocus, Bangalore | July 2018 – Apr 2019

- Created a Java drivers for data migration between eDirectory and Azure, saving 40+ hrs/month in integration.
- Contributed to developing an identity manager console using React JS for improved management.

### Bachelor Thesis

MicroFocus, Bangalore | Jan 2018 – Jun 2018

- Developed a REST-based SCIM driver at MicroFocus Technologies, enabling seamless identity provisioning for connected applications.

## ► KEY PROJECTS

- **Cloud Data Integration for Processing** (April 2025 – Present): Developing scalable data pipelines to integrate and process data from multiple sources, leveraging cloud technologies for optimized performance and efficiency
- **Data Warehouse Implementation**: Designed and deployed a small-scale data warehouse using the Data Vault approach in Oracle, enabling robust data storage and efficient analytical processing.