

Vinicius Agreste

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Objective

Analytical and driven M.Sc. Information Systems student at TUM with hands-on experience in **data engineering, data analytics, cloud systems, AI (agents),** and **software engineering** at **Allianz** and **BMW**. Skilled in building data-driven solutions, streamlining complex pipelines, and collaborating across diverse teams. Experienced in **leadership roles** within international student initiatives, combining technical expertise with strong communication and problem-solving skills. **Motivated by curiosity, innovation, and making a tangible impact through data.**

Education

Technical University of Munich M. Sc. Information Systems GPA: (expected) 2.5 (German Grade) Relevant coursework: [List any specific courses relevant to the job]	Munich, Germany 2024-April, 2026 (expected)
Technical University of Munich Final Grade: 2.5 (German Grade) Bachelor Thesis at the Chair of Cybertrust: "Analyzing the Influence of Chinese Data Protection Regulations on Foreign Companies Operating in China: An Empirical Study " - 1,0	Munich, Germany 2020-2024

Experience

Working student –Data Analyst/Data Engineer Allianz (AKM)	Munich, Germany Apr 2024 - Present
<ul style="list-style-type: none">Migrated legacy infrastructure to the cloud by developing Python, AWS, Terraform, and Snowflake modules.Monitored and maintained ETL pipelines, ensuring accuracy and reliability for client-facing processes.Increased ingestion limits to 200GB+ by optimizing AWS Glue workflows, avoiding added costs.	
AI Agents Researcher SAP	Garching, Germany May, 2025 - Aug, 2025
<ul style="list-style-type: none">Built a multi-agent AI MVP with LangGraph to optimize supply chain decision-making.Integrated SAP S/4HANA and SAP BTP to ensure scalability and enterprise applicability.Acted as both developer and technical project manager: managed tickets, prioritized tasks, facilitated team discussions, and aligned business needs with technical delivery.	
Working student – Process and IT-Tools development BMW Group	Garching Sep, 2022 - Aug, 2023
<ul style="list-style-type: none">Automated workflows: Designed and implemented Python scripts to replace manual data management tasks, reducing manual data consistency checks from 1 week to less than 1 minute.Built data dashboards: Developed interactive dashboards with Python and Streamlit to analyze large datasets and deliver insights to stakeholders.Supported product development: Collaborated with Business Analysts and Product Owners to plan and implement new features for data management projects, while also	

- helping manage the team's ticket backlog and documentation on Jira and Confluence.
- **Developed data tools:** Created data management solutions using Python, SQL, Pandas, and data science techniques to optimize decision-making and process transparency.

Financial Analyst → Department Team Lead → Mentor
TUM.ai

Garching
Oct, 2021 -Jan,
2024

- **Created financial forecasts and optimized budget management** across departments.
- Solved complex budgetary issues, enabling on-time project execution.
- Pitched and secured crucial partnerships for hackathons and led a team of six.

Projects

AI Consulting for SMEs – AI Integration & Automation

Campinas, Brazil
Ongoing

- Description: Founded a consulting initiative to help SMEs adopt AI for process automation and strategic use cases.
- Role: Advised on AI adoption strategies, implemented automations, and delivered rapid MVPs.
- Technologies Used: n8n, AWS cloud infrastructure, Python, AI automation tools.
- Outcome: Accelerated SME digital transformation by reducing costs and streamlining repetitive tasks through scalable AI solutions.

CDTM Hackathon – Patient Data Optimization

June 2026

- Description: Developed an AI solution to streamline patient registration by automating document intake and enhancing accessibility of medical records.
- Role: Designed the OCR and document embedding pipeline, enabling efficient retrieval of relevant patient files
- Technologies Used: Python, AI, OCR tools, vector embeddings, AI-based search..
- Outcome: Improved efficiency of doctor–patient interactions, functioning like a personalized digital assistant for each patient’s case.

Certifications

Academic Process Mining Fundamentals

Jan. 2024

- Institution & Issue Date: Celonis, Jan. 2024.
- Description: Process Mining
- Skills & Tools: Process Mining, Celonis’ Process Intelligence Platform.

Advanced Data Analytics Professional Certificate

Feb. 2024

- Institution & Issue Date: Google, Dec. 2023.
- Description: rigorous six-month Google Career Certificate training in Data Analytics
- Skills & Tools: Data Analysis, SQL, Python, Tableau, Exploratory Data Analysis

Additional

Language Skills: Portuguese (native speaker/C2), German (highly proficient/C1), English (highly proficient C1), Spanish (intermediate/B1), Italian (beginner/A2)

Technical Skills: Data Science, AI, AWS Cloud (Lambda, Glue, S3, IAM, EC2), Microsoft Office, Python, C, Java, HTML + CSS, SQL, Jinja, Flask, Streamlit, UML, Google G Suite, Jira, Git Hub, Tableau, EDA, Machine Learning Algorithms, Jenkins.

Volunteer Experience: Provided social aid during the 2019 environmental disaster in Brumadinho, Brazil. Participated in a one-week annual program (2015–2018) supporting underprivileged children through educational and recreational activities at our local church.

Interests/Hobbies: Football, Marathon, Scuba Diving, Traveling, Classical Books, Philosophy, 3D Printing, Woodwork, and Automation.