

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

- **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

- **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

- **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

- 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.

Campinas, Brazil
Ongoing

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.