



SAP SE
Dietmar-Hopp-Allee 16
69190 Walldorf
Deutschland
T +49 6227 7-47474
F +49 6227 7-57575
E info@sap.com

Reference

Mr. Ambuj Solanki was employed in the Product & Engineering - Business Technology Platform - HANA Multi Model Development Experience department of our company as a working student from August 1, 2024 through January 31, 2025. Afterwards he completed his master's thesis in the same department through July 31, 2025. The subject of his master's thesis was: "A Comparative Study of AI-Generated and Manually Written Code in Developing Database Adapter for SAP HANA Cloud Using an Open-Source Framework". Subsequently he was again employed as a working student in the same department through September 30, 2025.

His main tasks were:

- Developing an SAP HANA Cloud adapter for the dbt framework
- Programming in Python to extend dbt's adapter framework and implement core functionalities
- Resolving SQL syntax and compatibility issues
- Writing and optimizing dbt Jinja macros for handling database-specific logic
- Ensuring robust testing and schema validation for data reliability
- Thesis-related tasks:
 - Conducting a comparative study of AI-generated vs. manually written code in developing the dbt adapter
 - Designing and executing experiments to evaluate code accuracy, maintainability, and usability
 - Applying prompt engineering techniques to generate and refine AI-produced code for dbt database adapter development
 - Analyzing the strengths and weaknesses of AI-assisted programming in real-world development
 - Presenting technical findings in a way that was accessible to both academic and technical audiences

Mr. Solanki has very good knowledge of dbt and dbt adapters. He also acquired good knowledge of SAP's own HANA Cloud application. He has good skills in the Python and SQL programming languages.

Mr. Solanki was always a committed and very flexible employee. His high degree of initiative always enabled him to identify new tasks independently and at an early stage and to produce good solutions. He demonstrated extremely high ability and willingness to learn. He acquired good specialist skills which he always applied in a capable manner. He always worked independently and reliably, and with a high degree of customer focus. Mr. Solanki was always highly goal-oriented and demonstrated above-average quality awareness, coupled with high efficiency. With his refined communication skills, he was proficient at relating facts and issues.

Mr. Solanki always performed his tasks to our utmost satisfaction.

His competence and sense of team spirit earned him respect and recognition among customers, superiors, and colleagues alike. He was always friendly and helpful, and his conduct was correct at all times.

We would like to thank Mr. Solanki for his very valuable contribution and wish him continued success for his future career and personal life.

Walldorf, September 30, 2025

SAP SE

i. V.



Dr. Christine Voigtländer

Local HR Services Manager GER

i. A.



Holger Lohr

Local HR Services Specialist GER