**Additional context**

**Personal details:** Surya’s full name is Surya Govindasamy Ganesan. He is a 20 year old male born in India who moved to the UK roughly three years ago. He lives in London and his full name is Surya Govindasamy Ganesan.

**Personal Summary:** Surya Govindasamy Ganesan is an international student from India who studies BA Business management at the university of Leeds till June 2025. he moved to the UK in 2021 to pursue his degree in business. After finishing the second year of his degree, he landed a placement programme with SAP where he is working for one year in different departments to gather more experience. After finishing his one year placement programme that goes from 1st July 2023 to 31st July 2024, he will go back to university to finish the final year of his degree between September 2024 and June 2025.

Currently he is working at SAP as an intern as part of their placement program. He is working in different departments doing a variety of work including business analysis in the programs office (creating business reports on performance and productivity), Value advisory as part of the Industry Value advisory organisation (Advising SAP customers on the business value of investing in SAP software like S/4HANA Cloud), and as an associate AI engineer in Singapore’s AI use cases team (Learning to build and evaluate RAG bots).

**Education and projects:**

Surya is currently studying at the University of Leeds studying BA Business management till June 2025. he did his high school education in India at the Indian public school where he chose Maths, Physics and Computer Science as his primary subjects.

Surya graduated from high school with an overall 95%. he has a strong foundation in math as he has been studying math from high school and has also further developed these skills on his pursuit to being an AI engineer. he have studied maths in high school and have also delved into the math behind building predictive models like linear regression and logistic regression during their university studies. Hence, he have a strong foundation in mathematics that will help me excel as an AI engineer.

During his first year at university, Surya did a business analytics module where he learnt the maths behind building different predictive models like linear regression and logistic regression. he built skills in analysing datasets and building predictive models with excel.

At the end of the first year he also managed land a part time role at an international money transfer startup called “Easy Transfer” holding a marketing role in conducting marketing campaigns with the student community and explaining the service to first time customers.

During his second year of university Surya ran a student society for social entrepreneurs. he led a team of 9 people that helped me conduct several events with an average footfall of 50+ students. This experience helped me develop his skills in collaboration, leadership and planning and executing a strategy.

In the second half of his second year at university, Surya decided to build a budgeting app for minimalist students who want to control their impulse spending behaviours. It was called “the guilty project”. he finished building the app after interviewing several students who had trouble managing their finances, and he built the app with flutter for the front end and python with flask for the backend. During this time he taught himself how to build apps with Flutter and Python servers, and also learnt to host a server on the cloud.

**Placement program with SAP:** Currently during the year of his placement program, Surya is working at SAP in three different departments from time to time – Value Advisory, Reporting and Enablement, and AI engineering.

In the first four months of his placement Surya developed his skills in value selling and learnt about the B2B software space. by helping create value pitch decks for SAP’s cloud ERP products like SAP S/4HANA, Digital Supply Chain and Customer Experience products. A huge part of his role there was to create a business case for investing in SAP products by collecting customer’s operational data, identify the customer’s key value drivers and calculate expected benefit ranges for the customer in a specific industry in terms of potential new revenue generated, cost cut down and increase in sustainability.

In the second four months of his placement, Surya was working as an associate business analyst for the UKI Value advisory department. This meant that he created end of quarter and end of year performance reports using excel and SAP’s SAC database (SAP Analytics cloud database), highlighting trends that occurred in the period, tracking targets and analysing anomalies. he worked with tools like PowerBI, excel and SAC cloud to source data, clean them, interpret data and visualise results.

During the last five months of his placement program, between March 2024 and July 2024 Surya is working as an associate GenAI engineer shadowing an experienced colleague from the field where he is learning about building RAG chatbots in python and the langchain framework using open source tools, evaluating and improving their performance using the phoenix framework to evaluate their reliability, relevancy and hallucination metrics.

During the first four months of placement period he was self learning the basic’s of artificial intelligence by taking CS50’s Introduction to machine learning course where he learnt different AI algorithms that were being used before machine learning became popular like Depth first search, Best-First search, KNN algorithms.

During the second four months of the placement period, Surya self-taught himself machine learning in python where he learnt about the different machine learning concepts used to make predictions like Decision trees, Linear regression, Random Forests and Gradient Boosting techniques. he put these concepts into practise by building a “sales deal success predictor” project that relied on CRM data downloaded from SAC so that members of the value advisory department can prioritise which deals to support first based on how likely they are to close.

To build the sales deal predictor project Surya created a dataset that had information about a 100 sales deals classified as successful or lost, which included relevant variables in predicting success of a deal that were chosen based on the personal experience of his colleagues. After dividing them into training and test dataset, he tested different predictive models to predict the success of deals with cross validation in scikit-learn and identified that Random forests had the highest accuracy in predicting deal success. After tuning hyper-parameters like max depth and number of decision trees, he arrived at a model accuracy of 65%. Through experience his colleagues identified that even SAP’s internal deal prioritiser that is based on similar data sources can only offer such level of accuracy. Hence he was able to replicate the deal success predictor that we used within the company and was a fun experience where he learned about the basics of machine learning.

During the last five months of the placement period, he also self-taught himself about building deep learning models with pytorch outside of his work hours to understand the math and logic behind modern Generative AI technology. He has learnt about the basics of pytroch, training a simple neural network, building a convolutional neural network, using residual blocks, weight decay and learning rate scheduling to improve performance, training a neural network on GPU, the ResNet9 architecture for image classification and hyper-paramater tuning to build, train and improve the performance of a neural network while tackling the vanishing gradient problem.

**Skills he has developed for being an AI engineer:** During high school and university Surya has developed his python programming skills by buildings apps, servers and other side projects. During his placement program with SAP he developed his skills in machine learning and deep learning by learning to build different types of predictive models including neural networks. Working as a business analyst has allowed me to learn about data transformation, data cleaning and presenting technical information. While working as an associate GenAI engineer, he has learnt to build agent chains using the langchain framework in python and trace and evaluate RAG bots using the phoenix framework in python. he has developed all of the mentioned skills to become a high performing AI engineer.

Out of all the projects Surya has worked on, the RAG chatbot project that he built, is his most favourite project of all as he is fascinated by the topic of LLMs. The RAG chatbot is his most favourite project because he is fascinated by the concept of LLMs or Large language models. The RAG chatbot project is Surya’s most favourite project for this reason. Out of all the projects Surya has worked on, the RAG chatbot project that he built, is his most favourite project of all as he is fascinated by the topic of LLMs.

**Job role expectations:** Surya is currently working at SAP as an intern till July 2024. After graduating in June 2025, he want to work on a role like AI engineer or ML developer or GenAI engineer, where he get to work on interesting new ideas. he want work in a role that revolves around either building applications with large language models or other Generative technologies or training and fine tuning LLMs for specific use cases. he is looking for a minimum salary of £35k pounds, preferably in London.

**Skills that he lacks:** he is trying to develop his skills in learning to use Knowledge graphs in his langchain applications, learn to build multimodal retrieval applications and also learn to build and train transformer models to understand the basic technology that generative AI is dependent on. These are skills that Surya lacks right now but is trying to improve on.

**What he is doing currently:** His name is Surya Govindasamy Ganesan. he is currently both a student and in full time work. he’m studying at the university of Leeds till June 2025 for a degree in the Bachelor of arts in Business management. So, he’m currently studying BA Business management at the University of Leeds till June 2025 and he’m working at SAP as an intern as part of their placement program.