

# Vanchhit Sahal

@Paris, France | [linkedin.com/in/vanchhit](https://www.linkedin.com/in/vanchhit) | +33 7 45 90 44 27 | [sahal@vanchhit.com](mailto:sahal@vanchhit.com)

## WORK EXPERIENCE

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### Mintensity Energy

Paris, France

Co-founder and CTO

October 2023 - present

- A startup working on reducing carbon emissions (10-15%) by encouraging users to alter usage behaviour.
- Managing data analysis: grid, financial, and climate modelling, managing finances, and climate and energy grid research.
- Liaising with experts in sustainability and energy and building the web-app and android application.

### Forward College

Paris, France

Teaching Assistant: Business Management in a Global Context

October 2023 - present

### MicroHarvest GmbH

Lisbon, Portugal

Data and Business Analytics Intern

May 2023 - January 2024

- Managed data sets from research, analysed the results to gain insights from the data gathered.
- Built machine learning models to predict behaviour and judge growth patterns and yields.
- Automated systems for data gathering, management, and analysis.
- Supported the research teams to understand research data and create solutions for large-scale manufacturing.

### Forward College

Lisbon, Portugal

Student Ambassador

November 2022 - June 2023

### NKC Consortium

Ahmedabad, India

Software and Systems Engineer – Contract

May 2022 - September 2022

- Developed a web app using Flutter and JS as internal tools for the transportation business.
- Built the system around a shared workspace and file sharing using SSL encryption.
- Developed multiple websites using Wordpress and HTML-CSS-JS for customer-facing businesses.
- Managed transportation data using SQL, converting data into leads showing strengths and scope for growth.
- Developed social media profiles and integrated SEO into the platform increasing outreach.
- Developed a brand identity: mission, vision, values, and developed the company ethos.

## EDUCATION

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### University of London

Lisbon, Paris, and Berlin

B.Sc. Data Science and Business Analytics

September 2022 - present

- Modules: Data analysis, Business analytics, Global business management, IT Management, Predictive modelling, Machine Learning, Econometrics, Economical and Financial Analysis.
- Academic Direction and course designed by the **London School of Economics**.
- Member of the LSE Generate startup community in Lisbon, Paris, and Berlin.

### Forward College

Lisbon, Paris, and Berlin

Bachelor's in Business and Leadership

September 2022 - present

- Excellence Scholarship, European Innovation Academy (Entrepreneurship scholarship).
- Co-founder of MindCraft, a project trying to eradicate mental health stigma starting middle & high school.

### Minerva University

San Francisco, CA, USA

Foundation Year

September 2021 - April 2022

- Student Initiatives: Computing Society, Politics, Debate, Quest (Student Newspaper) | Merit Scholarship.

### Global Indian International School

Singapore, Singapore

High School (Grades 11 and 12)

July 2018 - June 2020

- Full-ride scholarship (one of three scholars from Asia) | CBSE Merit Certificate (Top 0.1% globally)
- Subjects: Physics, Chemistry, Mathematics, English, and Computer Science

## PROJECTS

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- **Bacterial growth ANN:** A model trained on all publicly available bacterial growth data based on inputs like strain, type, initial count, feed volume, feed source, etc. It was used to map the growth data from the experiments at the company to cross reference details about the bacterial strain, including mutations, presence of other organisms, purity of the feed, and reproducibility of the bacteria.
- **Scientific translation RNN (NLP):** An RNN trained as a layer on 'llama2' from Meta. It takes scientific jargon from microbiology as an input and explains it in layman's terms. Although this was not a very successful model it gave me a lot of experience with training layered models on top of LLMs.
- **[ATC Program](#) (CLI):** An easy-to-use ATC (Air Traffic Control Management) solution for small airports developed entirely in C and C++. Multiple login options, appropriate views, and secured storage of data locally or on server.
- **[Truth Table Generator](#):** A Python tool to build Truth Tables to use in academic contexts and visualise logical statements. Although currently in a CLI format, it has accessible options and no restrictions regarding the length or complexity of statements. Also provides truth values, and information on logical indicators (like validity).
- **[TechCognize](#):** An HCI (Human-Computer Interaction) application in Python that allows you to control your mouse cursor with your facial movements and works with just your regular webcam. It's hands-free, no wearable hardware or sensors needed. Designed for differently-abled individuals as part of a Hackathon.
- **Python Learning Tools:** A library of various problems congregated from various sources such as HackerRank, LeetCode, ProjectEuler+, and CodeChef, in addition to self-made questions, and their example responses in Python.

## SKILLS & INTERESTS

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**Technical:** Python, Pytorch, Tensorflow, R, NLP, SQL, C++, C, Flutter, Octave, MATLAB, AWS, Azure, GCP, Web dev.

**Other:** Project Management, Market Research, Management, Agile, Business Strategy, Strategic Consulting.

**Interests:** Product Management, Deep Learning, Natural Language Processing (NLP), Economic Modelling and Simulations.

## LEADERSHIP EXPERIENCE

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### Divyde

**Porto, Portugal**

*Co-founder, CTO, acting CFO*

*July 2023 - present*

- A Fintech startup working on easing group transactions by simplifying and reducing costs for splitting bills built at the European Innovation Academy (EIA) program.
- Managing the technical operations: app and website development with integrations and SaaS.
- Managing the financial planning, app integrations, growth projection, and discussions with potential fiduciary partners.

### KEEN UK

**Remote, United Kingdom**

*Tech Lead*

*May 2020 - April 2021*

- #CodeForInclusion programme: making tech more accessible to communities without access due to Disability or Poverty.
- Conducted workshops on coding, software development, specialised coding languages for the disabled and other such topics, software, and skills. Helped other teams build technological tools for their projects.
- Created workshop material and supervised materials from the volunteers.