

---

## Personal Information

Name	Amit Tiwari
Address	Hahnenstraße 19, Haus 4 50354, Hürth (Cologne), Germany
Telephone	+49 1782571880
E-Mail & LinkedIn	<a href="mailto:amit.t6765@gmail.com">amit.t6765@gmail.com</a> <a href="https://www.linkedin.com/in/amit-tiwari1/">https://www.linkedin.com/in/amit-tiwari1/</a>
Date of Birth	04.08.1993
GitHub	<a href="https://github.com/smilyamit">https://github.com/smilyamit</a>



---

## Professional Experience

09/2021 – Present

### **BASF, Cologne, Germany**

*Master Thesis in Weed risk predictions in Agricultural field by observing weed emergence patterns using Django, Flask, JavaScript, AWS, and others*

- **Designing the Subqueries for Data Lake**
- Made the **Django REST API** & perform novel Feature Engineering on data in machine learning pipeline
- **Serializing data** using JSON Web tokens
- Worked on **Authentication and Authorization**, adding pagination
- Built **Microservices** based on Python Framework e.g., Flask

04/2021 – 09/2021

### **BASF, Cologne, Germany**

*Working Student in Research & Development in Crop Modelling Team*

- Built Crop Yield Model based on **Mechanistic & Machine Learning algorithm**. (Team: 11)
- Improved & changed the **existing REST API** and made several modifications in **Lambda function on AWS**
- **Django on the server-side** is used to handle Weather API, Soil API. Its running time is optimized using the async function

01/2020 – 06/2020

### **KoRo Handels GmbH, Berlin, Germany**

*Internship in Product & Web Development*

- Solved the missing media query problem of the website using **CSS & JavaScript**
- Tackled website slows loading problem by using **CDN** and optimize code related to plugin & image stuff
- **Built NLP based Chatbot model** & Integrated with Slack for chat assistance

05/2019 – 08/2019

### **Ernst Abbe Hochschule Jena University of Applied Science, Jena, Germany**

*Project Work in Python and Data Science (Credit: 3)*

- We **had built the Django app** in which we were using an ML API to detect faces from the given images (Team Member: 2)
- Built ML application like Speech Recognition model using pytsx3

07/2016 – 09/2018

**Unigaz Tech, Doha, Qatar**

*Junior Project Engineer in Sensor System*

- Built the entire **Sensor based Fuel system** of Qatar Naval Base
- Tested & **commissioned various Sensors**

---

## Education

10/ 2018 – Present

**Ernst Abbe Hochschule Jena University of Applied Science, Germany**  
*Master of Science in Scientific Instrumentation*

Python, Scientific Computing, Embedded systems, Sensors Technologies

08/ 2011 – 07/2015

**Visvesvaraya Technological University, Bangalore, India**  
*Bachelor of Engineering in Mechanical Engineering*

Engineering Mathematic, Computer Integrated Manufacturing, Machine Design and Computation Basics.

---

## Personal Skills and Competence

Technical Skills

- **Python: Django, Flask,**
- **Web Stack: JavaScript, HTML, CSS**
- **Java: Data Structure & Algorithm**
- **AWS Services like AWS EC2, S3, Lambda, API Gateway**
- **SQL and NoSQL DBMS: PostgreSQL, MongoDB**
- Data Visualization Tool: Tableau
- **Repo & container engine: Data Lake, Docker**
- Version Control: Git, Source Tree, Bitbucket
- System: Mac, Windows, Linux
- Atlassian Tools & other: Jira, Confluence, Microsoft Office 365

Language Skills

- German -B1, English-Fluent, Hindi-Native

---

## Hobbies

- Drone Flying & Shooting videos, Trekking

Cologne, April 2022