
Personal Information

Name Amit Tiwari
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My-Website <https://xander123.pythonanywhere.com/>
Date of Birth 04.08.1993
GitHub <https://github.com/smilyamit>



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 pyttsx3

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, React, HTML, CSS**
- **Java: Data Structure & Algorithm**
- **AWS Services like AWS EC2, S3, Lambda, API Gateway**
- **SQL and NoSQL DBMS: My SQL, 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, May 2022