

SHUBHAM TIWARI



EDUCATION

Thapar Institute of Engineering and Technology, Patiala
Bachelor of Engineering in Computer Science Engineering, GPA: 8.06/10
Shaheed K P S Inter College, Devaria Churamani, Gonda
Intermediate, Percentage: 87.2%

India
July 2019- July 2023
India
July 2016 – July 2018

WORK EXPERIENCE

Data Engineer



Python, GCP, Apache Beam, SQL, Bigframe, Pandas, PostgreSQL

Sept. 2023 – Now

- Developed lower cost strategy by removing cloud Dataproc & cloud composer.
- 6.4 million files coming on daily basis and need to be transform and ingest into BigQuery tables.
- Performed different POC with cloud run, cloud function, dataproc and dataflow
- Saving 30% cost ~\$150K pa by implementing an optimal and efficient solution. Performed production load testing.

PROJECT EXPERIENCE / OPEN SOURCE

Internship @Ericsson India Global Services

Python, Google cloud platform (GCP), Big Query & other GCP services, SQL,

Jan. 2023 – Jul. 2023

- Problem area overspending, lack of automation and security and compliances.
- Proof of concept for a **lightweight data ingestion and aggregation pipeline**.
- Designed solution for automation that can reduce cost, time, efforts, and other resources. And can predict service degradation in advance.
- Have MNC work culture experience, teamwork, professionalism, solved real-time problems, gained debugging skill.

DURI – Digital Universal Remote Interface



Python, Computer vision, Nvidia Jetson Nano kit, MediaPipe, PyQt5, Autopy

March 2022 – July 2022

Research Paper + PATENT

- Innovated an AI based software for public computers using that people can interact with computer by their fingers before the camera with the **accuracy of 98%**.
- Objective is to prevent from spreading **COVID-19 like diseases** by avoiding touching the same **public computer (i.e. ATMs)** by people.
- Proposed interface for controlling robots and **Reduces 90% manufacturing cost of mouse and keyboard**.

Lakhan Mitra: Book to eBook



Python, OpenCV, Tesseract OCR, PyQt5, Django, HTML, CSS

Nov. 2021 – July. 2022

- Created a solution for people **to make eBooks from the hard copy of books** of any language e.g., Tamil, Telugu, Urdu, Sanskrit, etc.
- Scan the book it will convert into an eBook for people. **Save 90% time in typing** Only need is formatting.
- Monitored **more than 100 languages** are supported to preserve book's literary value.2

TECHNICAL SKILL

Programming Languages:

Python, C, C++, PHP *Familiar with* Scala, R(Basic), Dart, JavaScript, C#

Databases:

MySQL, PostgreSQL, SQLite3 *Familiar with* PL/SQL (Procedural Language)

Libraries/Framework:

Pandas, NumPy, Seaborn, Matplotlib, MediaPipe, OpenCV, Scikit-Learn, TensorFlow, Big Query

Frontend

HTML, CSS, Bootstrap

Backend

Flask, Django, PHP, Apache Beam

Data Structures and Algorithm

Solved 150+ questions on Leetcode and 100+ questions on Geeksforgeeks.

Competitive Programming/Problem Solving

5* on *HackerRank* and 3* on *Codechef*

Basic familiarity of tools

GIT, Gerrit, DBeaver, Azure, AWS, Linux, Maya2020, Docker,

POSITION OF RESPONSIBILITIES/EXTRA CURRICULAR ACTIVITIES

- **Rotaract Club of TIET | Marketing head** (2020-2022).
- **Mathematics Teacher** of class 9th-12th @ Unique Academy 1.5+ years' experience (March 2020 – Sept. 2021).
- **Voluntarily organized art & singing competitions** in the rural area and **motivated students** toward science and education.
- Part-time video content creators to help the people. More than 1 Million+ views.

HONOR & AWARDS

- **Ranked 242** among 25000+ coders **globally** in Codechef august long challenge 2021.
- **1st Marketing head** of Rotaract Club of TIET.
- Got **1st position in District** in class 12th- **Awarded by District Magistrate**.
- Led most college projects and managed up to **7-member teams**

CERTIFICATIONS

Getting started with AI on jetson nano	Nvidia	link
Fundamental of Accelerated Computing with Cuda Python	Nvidia	link
Google cloud digital leader certification	Udemy	link
Problem Solving (Intermediate)	HackerRank	link
Python	HackerRank	link
Learn Ethical Hacking from Scratch by Zaid Sabih	Udemy	link