SHUBHAM TIWARI



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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

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

Sept. 2023 - Now

- Developed ETL pipeline at 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 scheduler, pubsub, dataproc and dataflow batch & streaming pipeline
- Saving 30% cost ~\$1M pa for 10 customers by implementing an optimal, scalable and efficient solution. Performed production load testing.
- Lead wholesome project of 5-member team from blueprint to production deployment by appropriately allocating resources and IAM.

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 using cloud run, cloud function, eventarc, GCS.
- 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 Research Paper + PATENT



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

March 2022 – July 2022

- 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:
 BigQuery, 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

CI/CD & IaC Terraform, Jenkins, GitLab, Automation script for redeloyment

Competitive Programming/Problem Solving 5* on HackerRank and 3* on Codechef

GCP & useful tools Compute, Billing, Storage services, GIT, DBeaver, Azure, AWS, Linux, Maya2020, Docker, container

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. Having 20M+ 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	<u>link</u>
Fundamental of Accelerated Computing with Cuda Python	Nvidia	<u>link</u>
Google cloud digital leader certification	Udemy	<u>link</u>
Problem Solving (Intermediate)	HackerRank	<u>link</u>
Google Cloud Certified Professional Data Engineer	Google	<u>link</u>
Learn Ethical Hacking from Scratch by Zaid Sabih	Udemy	<u>link</u>