UTSAV CHAUDHARY

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I am excited to apply for this position. With extensive experience in Python and developing high-performance APIs using FastAPI, I am confident in my ability to contribute effectively to your team.
In my current role, I developed **RESTful APIs** for finance data transactions using **FastAPI** and other **Frameworks**, and **Azure Cloud**, ensuring data integrity and compliance. I have a solid understanding of asynchronous programming in **Python**, **SQL**, and **NoSQL** databases. Additionally, I am proficient with **Git** **github.com/UttU28** for version control and have experience integrating comprehensive test cases into DevOps pipelines.

I look forward to discussing how my skills and experience align with your needs. Thank you for considering my application.

PROJECT EXPERIENCE:

AutoGramBot (Video Create/Upload)| Python, Flask, Azure, APIs, FFMPEG, Selenium [Instagram Profile]
Developed Python script to automate **Video Creation** and **Uploading** (English Teaching Reels) on **Instagram**. Collecting raw videos using **PlayPhrase.me API**. Implemented **FFMPEG** to seamlessly **overlay** logos, images, and merge multiple video clips with **professional-grade** transitions, achieving a polished, desktop-like editing quality. Integrated **WhisperAI API** for automated **subtitle generation**, ensuring accurate **timestamp** and relevance. Used **Pillow** and **FFMPEG** to embed **subtitles** into videos at **timestamps**. Utilized **Google Drive API** for storing and organizing finalized videos, ensuring **Free** and scalable cloud-based storage. Managed video URLs in Azure **Blob Storage** in **JSON** format. Orchestrated workflow using **Azure Logic Apps** to automate video processing tasks. Integrated Logic Apps with **Azure services** for seamless task coordination, ensuring efficient and timely video production. Automated Instagram video **uploads** and **configuration** using **Selenium**. Managed login, video upload, and description **configuration** on the Instagram platform, enhancing **social media content management**.

AssignmentX | Python, NumPy, Pillow, Flask, Android Studio [
Developed "AssignmentX," an **Android** / **Web** application leveraging Python, NumPy, Pillow, Flask, and Android Studio to create handwritten-like assignments. Achieved over **5000+ downloads** on **Play Store**, with 200+ daily active users and **32K+ YouTube** views, showcasing widespread adoption and user engagement. Utilized **Pillow** and **OpenCV2** for precise image processing of alphabet images to **simulate** handwritten pages within the application. Implemented a **human behavioral algorithm** to enhance the authenticity of the **handwritten appearance** of generated assignments. Designed and deployed a **Python-based backend** server hosted on **AWS VMs**, facilitating communication between the **Android app** and **central server**. Integrated **Flask** to develop a **Web API** enabling seamless interaction between the **mobile app, website,** and **backend services**. Implemented **SMTP** for email functionality, enabling users to send assignments as **PDF** attachments directly from the application.

EDU-AR | Unity 3D, Android Studio, AR Core, Tensorflow, Pandas, NumPy, Matplotlib, Keras
Developed "EDU-AR," an **Android** application targeting preschoolers with cognitive challenges, incorporating features for hearing and speech aid. Implemented **Augmented Reality** (AR) using **AR Core** in **Unity3D** and integrated Deep Learning models, specifically **CNNs** achieving 95% accuracy, utilizing **TensorFlow** and **Keras** for image processing tasks. Integrated **Google Vision API** for Handwriting Analysis **OCR** to facilitate automatic **recognition** and **interpretation** of handwritten content within the application. Assisted with **Sign Language interpretation**, enhancing accessibility for users with hearing impairments. Authored and published a paper in the international journal **IOSRJEN** (May 2021, Volume 11, Issue 5, E-ISSN: 2250-3021), detailing the technical advancements and educational benefits of the **EDU-AR** application.