Vaibhav Goswami

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Skills Summary

- **Languages**: Python
- **Frameworks**: TensorFlow, Keras, Flask, Scikit, OpenCv
- **Technologies**: Machine Learning, Terraform, Kubernetes, Docker, GIT, BigQuery, DataFlow, PubSub
- **Platforms**: Google Cloud Platform

Experience

- **HSBC Bank PLC** — Hyderabad
  Senior Software Engineer — *September 2021 - Present*
  - Promoted to Senior Software Engineer after 2 years for exceptional performance.
  - **Cloud Admin**: Was involved in streamlining of a Cloud Migration project. My role involved connecting with the various Product Owners for migrating their data from on-premises to GCP.
  - **DevOps Engineer - Implemented Infrastructure as Code**: A Terraform Pipeline was setup for the project to increase efficiency and reduce human errors by over **95%** while deploying Cloud resources into Production.
  - **Data Analyst**: Performed analysis for the 3rd Party Cloud Vendors dataset at the organization level, to built an asset for direct consumption for the Cloud Leads.

- **HSBC Bank PLC** — Hyderabad
  Software Engineer — *July 2019 - August 2021*
  - **Machine Learning Engineer**: built an Automated Machine Learning Pipeline to democratize Machine Learning in the Organization. Automated **90%** of the manual efforts required in deploying a ML model. The tool was hosted on Kubernetes, with the interface built on Flask.
  - **Cloud Engineer**: Saved **$5k** annually on a Google Cloud Project with optimum Compute Engine configuration and Automated Infrastructure planning using Terraform.
  - **Python Developer**: Created a Python Web API serving on Google Cloud Platform, which performed as a search engine for over 50+ Data Assets.

- **UST Global** — Chennai
  Machine Learning Intern — *July 2018 - December 2018*
  - **Project Course - Detect Car Damages and Estimate the repair costs using Images**: Created a Mask-RCNN Model to Segment individual Car parts and then performed Image Classification to differentiate between a damaged car part and undamaged with **91% accuracy.**
  - Used Transfer Learning and Image Augmentation with 10,000+ images to train the model.
  - **Impact**: Showcased the project 'D3+' expo held in Chennai. Got to demonstrate the product to various business clients for their consumption and around 200+ personal feedback and over 10 business client interests.

Education

- **BITS Pilani** — Goa Campus
  Bachelor of Engineering(Hons.) - Electronics and Instrumentation — *July 2015 - August 2019*
  Courses: *Introduction to Programming, Object Oriented Programming, Software Development for Portable Devices, Digital Image Processing*

Projects

- **Automatic Sudoku Solver from Image(Python, TensorFlow, Computer Vision)**: AI Model to provide solutions to a unsolved Sudoku problem from its image. Built a custom ML model for computer vision with **87% accuracy**. (December'20)
- **Budgeting Tool (Kubernetes, Python, Flask, Vision API)**: Lead a 6 member team to build a budgeting solution for an Internal Organization Hackathon. The tool was hosted as an Web Interface using Google Kubernetes Engine. Implemented Optical Character Reading from a bill invoice via Google Cloud Vision API. The Budgeting tool powered with AI was able to predict monthly expenses for users and notify them for exceeding their set threshold.(October'20)
- **Automatic Image Caption Generator (Android Studio, Java, Vision API, NLP)**: Developed a mobile application on Android Studio to generate automatic captions to an image. Used Google Cloud Vision API to detect main entities in an image and then applied NLP to predict the best caption to an image.(March'19)

Professional Certifications

- **Google Cloud Platform**: Professional Data Engineer (December'2021)
- **TensorFlow**: TensorFlow Developer Certificate (February'2021)
- **Google Cloud Platform**: Associate Cloud Engineer (September'2020)

Honors and Awards

- Pioneer of the Quarter (HSBC) - Oct 2021: Awarded for my exceptional performance in the quarter .
- Circle of Excellence (HSBC) - July 2021: Team Award, for moving the service to live in record time.