Dhruv Thakur

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EXPERIENCE

- **HSBC** — Hyderabad, IN
  Senior Software Engineer — *March 2019 - Present*
  - **CICD on GCP**: Infrastructure management and Microservice deployment on GKE (Terraform, GKE)

- **HSBC** — Hyderabad, IN
  Software Engineer — *May 2017 - Feb 2019*
  - **Data Processing on GCP**: Data processing on GCP (Pub Sub, BigQuery, Python)
  - **Business Rules**: Explored business rules management for a Credit Decision Engine (Drools, Spring, MongoDB)
  - **Credit Bureau**: (poc) Designed and developed data ingestion system to incorporate data from external credit bureau vendors to HSBC credit approval application. Created panels to display analysed data. (Flask, MongoDB, chart.js)
  - **Infrastructure Automation**: Designed an infrastructure automation approach for creating development environments on Google Cloud Platform (Ansible, Terraform)
  - **Data Warehouse**: Wrote data processing pipelines on GCP to migrate data from on-prem warehouses, perform ETL and delta-processing, and generate daily snapshots (Cloud Dataflow, Apache Beam, BigQuery)
  - **Offer Personalisation**: (poc) Built an application to generate offer recommendations from customer spending patterns (neo4j, DialogFlow, Cloud Functions, Pub-Sub, Flask, App Engine)
  - **Customer Calls Analysis**: (poc) Designed and developed a platform to do real-time analysis on customer center call data by generating sentiment scores from raw audio. Created a dashboard to monitor analysed data in real time. (Cloud Speech, Cloud NLP, Cloud Functions, Pub-Sub, Flask, socket.io, chart.js)

- **HSBC** — Pune, IN
  Software Engineer — *June 2016 - May 2017*
  - **Core Banking APIs**: Created APIs for modern clients to interact with a legacy core banking application (Mule ESB)
  - **Internal HR application**: Created modules on an internal HR web-application (Spring, Dojo)
  - **Internal Emails Classifier**: (poc) Created an ML model for classifying internal emails (Tensorflow)

PERSONAL PROJECTS

- **album-art-genre-classifier**: Image classifier API that predicts music genre from uploaded album art. *source*
- **grad-cam-visualizer**: Experiments in generating class discriminative localization maps from trained convnets. *source*

EDUCATION

- **Udacity**
  Intro to Self-Driving Cars Nanodegree — *Feb. 2019*

- **National Institute of Technology, Hamirpur** — Hamirpur, India
  Bachelor of Technology in Electronics and Communications Engineering — *Aug. 2012 – May 2016*

SKILLS

- **Programming Languages**: Python, Java, JavaScript, TypeScript, SQL, CSS, HTML, C, MATLAB, Octave, LaTeX
- **Data Science**: pytorch, fastai, keras, scikit-learn, matplotlib, pandas, jupyter, seaborn, apache beam
- **Web**: Spring, Flask, Django, Angular, Node.js, Express, Bootstrap, jQuery, chart.js
- **Ops**: Terraform
- **Databases**: MongoDB, BigQuery, MySQL