



# VIVEK CHANDRA JOSHI

## Lead Data Professional

Professional with 9 years of experience in Machine/Deep Learning, Python Automation, and MLops. Specialized in data set development, modelling, image deep learning, natural language processing, and generative AI. Expertise in computer vision, data analysis, feature engineering, and open-source contributions. Proven track record of working with corporate and venture-backed clients. Customizing applications, software, online development, and strategic business research for increased operational efficiency and corporate success.

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## WORK EXPERIENCE

### Lead Data Science Engineer CloudCover

04/2023 - Present

Bangalore Remote

CloudCover, under ST Telemedia Cloud, is a top public cloud solutions provider in Asia-Pacific and North America, with its headquarters in Singapore.

#### Achievements/Tasks

- **Leading the 15-person team in two verticals while contributing independently.**
- **AWS-based Computer Vision and Image Classification** with a novel technique for **localizing anomalies** using custom-trained CNN with transfer learning and **automated MLOps**.
- **Product Review Analysis - LLM/GenAI GCP Generative AI (PaLM2/BERT LLM)** was used to extract text insights about **cosmetic products** from **e-commerce** user reviews.
- **Optimization of Boilers GCP-based ML-solution** for optimizing boilers through dynamic setpoint computation with **Ensemble Regression** and identifying **fuel anomalies** with **Unsupervised**.
- **Consulting - GCP Retail On-premise to GCP Retail API** for **Personalized Search and Recommendations** to the platform.
- **ML Migration - AWS SageMaker → GCP Vertex-AI Migration** of **Proprietary PyTorch Vision Transformer Models** to GCP.
- The **Naive Bayes classifier** is used to detect **abusive words** in **social media content** written in **English**.
- **DialogFlow CX** was used successfully for a prominent Indian **e-commerce** company. To reduce operational costs, features such as **Status, Cancel Order, Change Delivery Address, and Delivery Date/Time** have been implemented.

## SKILLS

Data Science

AI /ML

ML OPS

Data Lake

Visualization & Analytics

Data Warehousing

Data Governance

Design and Solutions

Data consent

Application & Mobile Development

Presales

Project Management

## EDUCATION

### Master of Business Administration Narsee Monjee Institute of Management Studies

03/2020 - 06/2021  
Mumbai

### Master of Computer Application Amrapali Institute of Computer Application

08/2012 - 08/2015  
Haldwani

## WORK EXPERIENCE

### Lead Analytics Engineer Altimetrik Client - Airbnb

08/2022 - 04/2023

Bangalore Client location

Airbnb, Inc. is an American San Francisco-based company operating an online marketplace for short- and long-term homestays and experiences.

#### Achievements/Tasks

- worked **independently** and **oversaw** the **20-person** team in three verticals.
- Analyzed data, used TextCNN, and embeddings for **property recommendations**, improving listings for hosts.
- **Routing payment transactions** to different gateway using Payment Success Rate.
- Overcame **cross-currency** payment challenges, **boosting revenue** by **20%**. Implemented strategic measures, **closing unsupported legacy routes** and transitioning to new partners for improved payment processing efficiency.
- Successfully implemented **AWS expense optimization**, achieving a **40% reduction** in Storage costs and a **30% reduction** in Processing costs.
- **Data Governance** initiatives were led by me, and I conducted audits on data access, storage, and operations. Established key asset **ownership** tracking (DAGs, tables, dashboards, Minerva metrics). Strong retention policies were put in place to ensure proper data lifecycle management and compliance.

### Technical Lead Altimetrik Client- Twitter

07/2019 - 08/2023

Bangalore Client location

Former San Francisco-based American social media company operated Twitter, Vine, and Periscope services.

#### Achievements/Tasks

- Worked as an **individual** contributor and led the **10-member** team.
- Developed a KNN ML recommendation system for the **annotation system**, yielding ten recommendations for the **annotations** dataset.
- Using comprehensive **L4** descriptions and related metadata from PDP data, a **classification model** was implemented to predict L3 labels. The model gains the ability to make **precise predictions** by learning patterns from a variety of L3 and L4 labelled datasets.
- Developed a user-friendly **Compliance Rule Engine** and designed **MuleSoft pipelines** for Collibra to **extract data**, **enforce compliance**, **automate metrics**, **define models**, **establish connections**, **work together on metadata**, and **maintain lineage**.
- **MuleSoft** pipelines were created for **Collibra** with the following features: **data extraction**, **compliance enforcement**, automation of metrics, connection establishment, **model definition**, metadata collaboration, **lineage maintenance**, integration with external systems, and creation of an intuitive **Compliance Rule Engine**.

## TOOLS / LANGUAGES



Python



Scikit-Learn



PyTorch



TensorFlow



OpenCV



Pandas



Numpy



Airflow



Spark



Tableau



Superset



Looker



Power BI



Relational Database



NoSQL Database



GCP



AWS



Java



C# .Net



Scala



Node.js



Angular



React



Clojure (LISP)



Collibra/MuleSoft



React Native



Ionic

## CERTIFICATES

Mastering LookML: Looker's Modeling Language

Collibra Expert: Level I

Collibra Expert: Level II

GraphQL

MongoDB for .Net Developers

## WORK EXPERIENCE

### Senior Software Engineer

Haldor Topsoe A/S

10/2017 - 06/2019

Delhi On-site

Topsoe: Global leader in energy transition, innovating low-carbon solutions, transforming renewables into sustainable fuels and chemicals.

#### Achievements/Tasks

- Created a **deep learning** model, usually a Convolutional Neural Network (CNN), that can analyze and interpret **thermal images** to **predict temperature** values is the first step in creating an **image-to-temperature** conversion model. **Thermal camera** technology replaced **Goldcup technology**.
- Using **real-time thermal** values, **reformer tube bends** are reduced. The company sets up applications for customers, such as different kinds of **firing** in gas and oil facilities. The app, which is based on **IIOT**, gathers information from **Edge** and **IOT** devices and shares it with **Schneider** and **Honeywell UOP** for the processing of **chemicals** and **oil**. created a **calculation** engine that uses the **Azure service bus** to process **Honeywell** inputs.
- Setup **ML recommendations model** for increasing the **Catalyst** and **Reformer health**.
- Set up an application that uses a **survey** to collect **client data** for three or **one year** in order to **compile performance** reports for **Topsoe Engineer Plant** and **Catalyst**. Additionally, I assisted **five interns** in developing their skills and gave them structured instruction to guarantee they learned pertinent material.

### Senior Software Associate

SmartData Enterprises Inc

04/2015 - 10/2019

Mohali On-site

smartData excels in contract software development, surpassing client expectations. Serving startups and SMEs in diverse industries worldwide.

#### Achievements/Tasks

- Set up **HIPPA compliances** and **EDI** for the healthcare industry, as well as developed **client-side architecture** for the front end.
- development of **cross-mobile** applications with **Ionic**, **Cordova**, and **Kendo UI**. **Camera** and **gallery photo** uploading for **Android** and **iOS** has been implemented.
- Added a **chat module** to the **website** and **mobile app** for **patients** and **doctors** using **Socket.io**.
- **Angular CLI** was used to integrate the **prime ng** theme with **Angular 2/4**. Create a **20-person React** and **Angular** development team.
- Using **IBM Watson** and **API.AI**, create an application for **sentiment analysis** and **virtual buddy** setup.
- Setup a **front-end** system for the **video analytics** for the **Synergy Sports** basketball and baseball broadcast on **ABC**.

## HONOR AWARDS

### Sport Award

CloudCover

- On-time delivery
- OLTP and OLAP Database Migration

### Team Spot Award

CloudCover

- On-time delivery of ML pipeline Migration
- Data engineering pipeline migration

### Team Spot Award

CloudCover

- Less downtime on migration
- Less bug's and process automations

### Pat on the back

CloudCover

- On-time delivery
- Customer satisfaction

### Rise and Shine Award

Airbnb

- On-time delivery.
- Incresed revenue after updating the existing payment merchant and ML pipeline.

### GEM Award

Twitter

- On-time delivery and developed data governance inside twitter using Collibra.
- Setup auditing system and framework for datasets.

### Rise and Shine Award

Twitter

- Redused the the Bigquery cost by 25%
- Developed the Annotation framework. Setup recommendation system for the annotation framework

### GEM Award

Haldor Topsoe A/S

- Developed the first IIOT 4.0 solution with custom visualization using highchart.
- On site delevery without single issue. Developed Calculation system for catalyst and reformers.

## INTERESTS

Travelling to New Place

Watching Movie

Video Game

Lisning Music

Gardening

Reading New Technology