

Santosh Dighe

Technology Architect – Data & AI

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EXPERIENCE SUMMARY

- Over 14 years of experience in various phases of technology projects and business execution related to Data and Business Intelligence, including design, planning, and development.
- Strong problem-solving, analytical, entrepreneurial, and communication skills with the ability to design and implement innovative technology solutions efficiently.
- Experience in Business Development, Cloud, Data Engineering, Big Data, Computer Vision, Machine Learning, and leading & managing technology effectively. Worked for major corporate clients in the USA and successfully used technology for business benefit.
- End-to-end implementation of Machine/Deep Learning pipelines with data collection, data preparation/labeling, model building, training, testing, and deployment with web hosting.
- Extensive expertise in implementing large-scale enterprise data platform and multi-dimensional Data Warehousing projects.
- Geo/Proximity tracking and mapping using various location technologies like Bluetooth Low Energy (BLE) Beacons (Eddystone/iBeacon) and Geofencing, IoT, and location analytics.

WORK EXPERIENCE

PinCarts Private Limited

Sep 2016 – Jan 2021

Designation: Co-Founder & Technology Head – Data & AI

Description:

PinCarts is a technology-driven company with a vision to provide a seamless shopping experience to its valuable customers throughout their shopping journey using futuristic retail technologies like proximity marketing, personalization, advanced retail analytics, and indoor navigation. PinCarts' business model for brand retailers and shopping malls is meant to benefit the shoppers and retailers both.

Core Responsibilities:

- Strategic planning for the company's future growth, including technology and business operations, marketing, and sales strategy development.
- Proximity marketing platform using various location technologies like BLE beacons (Eddystone/iBeacon) and geofencing for tracking customers in real-time.
- Business-to-business Sales - On-boarded over 25 retail customers with an end-to-end system integration for product inventories to provide digital and in-store navigation of products.
- Design, develop and maintain advanced data and machine learning applications to support the company's vision of providing personalized and a real-time location-based shopping experience to our valued customers and operational efficiency for retailers.
- Enterprise Big Data platform and web & mobile infrastructure setup in the AWS cloud.
- Geo-mapping infrastructure setup for location tracking and customer targeting.

- End-to-end implementation & execution of Deep Learning projects with data collection, preparation/labeling, model building, training, evaluation, testing, and web deployment.
- Setting up GPU Deep Learning infrastructure with NVIDIA CUDA Toolkit on Linux platform hosted on Amazon Web Services and Google Cloud Colab.
- Custom training, transfer learning, and evaluating Deep Learning Convolutional Neural Network models for image object detection/recognition, classification, and segmentation problems.

AI Project Samples (<https://santoshdighe.com/#projects-section>):

1. Fashion Items Detection & Classification/Visual Recommendation System
2. Social Distancing Monitoring System
3. Human Pose Detection System
4. Content-Based Fashion Recommendation System

Hexaware Technologies Inc.

May 2006 – Jul 2016

Designation: Technical Architect

Project: Global Accounting Hub and Operational Data Store

Client: Northern Trust Corporation, Chicago, IL, U.S.A

Work Location: Chicago, IL

Role: Technology Architect

May 2015 – Jul 2016

- Implemented operational data store for accounting data in Enterprise Data Warehouse using Hadoop and Apache Impala/Hive metastore framework.
- Designed and Implemented service-oriented architecture for accounting business units.
- Integrated with upstream and downstream systems/applications with web services interface.

Project: Comprehensive Capital Analysis and Review (CCAR)

Client: Northern Trust Corporation, Chicago, IL, U.S.A

Work Location: Chicago, IL

Role: Automation Architect

Oct 2014 – Mar 2015

- Designed overall automation strategy for production execution of all CCAR schedules, which ensures fully automated execution and rerun ability and email notifications.
- Reduced time spent on quality assurance and decreased product defects by enhancing development procedures.

Project: Policy Administration System

Client: Trustmark Insurance, Lake Forest, IL, U. S. A

Work Location: Lake Forest, IL

Role: Data Architect

July 2014 – Sep 2014

- Ensured database guidelines to create a new relational database in Microsoft SQL Server that will make all the data from the source data spreadsheets available to end-users.
- Standardized data storage and normalized the table/entity relationships up to a certain extent to eliminate data redundancy and manipulation anomalies.

Project: Global Data Warehouse (GDW)

Client: American International Group (AIG), U. S. A

Work Location: Mumbai/Pune, India

Role: Team Lead

Nov 2011 – March 2014

Multi-dimensional data warehousing implementation.

- Delivered a First-of-a-kind multi-dimensional data warehouse for HR analytics and operational reporting with IBM InfoSphere DataStage and Oracle as a back-end database in Unix environment.
- Automated and scheduled data load processes using Unix shell scripts and PeopleSoft scheduler with interactive email notifications and error log distributions.

Project: Northern Financial Objective Reporting, and Management Project (nForm)

Client: Northern Trust Corporation, Chicago, IL, U.S.A

Work Location: Chicago, IL

Role: Team Lead

July 2006 – Oct 2011

- Implemented multi-dimensional financial data warehouse with IBM InfoSphere DataStage 7.5 and Oracle 11g as a back-end database in the Unix environment.
- Spearheaded a development team of over 15 members disseminated across onsite and offshore locations. Schedule execution automation with rerun ability.

PROFESSIONAL PROFICIENCIES

| Type | Details |
|--------------|--|
| Areas | Data Engineering ▪ Cloud ▪ Data Warehousing ▪ Machine/Deep Learning ▪ IoT Proximity Tracking/Mapping ▪ ▪ Computer Vision |
| Technologies | Amazon Web Services ▪ Python ▪ TensorFlow ▪ Keras ▪ PyTorch ▪ OpenCV ▪ Flask ▪ Cloudera CDH ▪ Hadoop Ecosystem ▪ Apache Spark ▪ Hive/Impala ▪ Apache Kafka ▪ Apache Flume ▪ StreamSets ETL ▪ R ▪ Java ▪ HTML ▪ CSS ▪ Javascript ▪ Service Oriented Architecture ▪ IBM InfoSphere DataStage ▪ ETL |
| Databases | MySQL ▪ NoSQL MongoDB ▪ PostgreSQL ▪ Oracle ▪ Microsoft SQL Server |
| Industries | Retail ▪ Finance & Banking ▪ Human Resource ▪ Insurance |

PROFESSIONAL DEVELOPMENT/CERTIFICATIONS

| Certification Program | Institute/Verified By | Month/Year |
|--|-----------------------------------|---------------------|
| Neural Networks and Deep Learning | DeepLearning.AI/Coursera | Feb 2019 |
| Data Science for Business | DePaul CDM IPD, Chicago, IL | Spring Quarter 2015 |
| Big Data Using Hadoop | DePaul CDM IPD, Chicago, IL | Spring Quarter 2015 |
| The Data Scientist's Toolbox, Getting and Cleaning Data, and R Programming | Johns Hopkins University/Coursera | Jan 2015 |
| IBM Big Data Fundamentals Professional v1 | IBM/Prometric | Sep 2013 |

EDUCATION

| Degree/Diploma | University / Institute | Description | Year |
|----------------|--|---|------|
| C-DAC Diploma | Institute for Advanced Computing and Software Development, Pune, India | PG Diploma in Advanced Computing (PG-DAC) | 2006 |
| B.E Computers | University of Pune, India | Bachelor of Computer Engineering | 2004 |