

Vishnu Srivastava

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EDUCATION

IIT, DELHI

PHD(PART-TIME)

VISION LANGUAGE MODELS

Delhi, India

Jul'25 - Ongoing

UNIVERSITY OF WATERLOO

MMATH THESIS IN COMPUTER

SCIENCE

Major: Software Engineering

Guide: Prof. Paulo Alencar

Waterloo, ON | CGPA : 87%

Sep'14 - May'17

DELHI TECHNOLOGICAL

UNIVERSITY

B.TECH ENGINEERING PHYSICS

Major: Robotics & Info Systems

New Delhi, India

May'09 - May'13

LINKS

Github:// github.com/zxingz

LinkedIn:// linkedin.com/in/zxingz

SKILLS

PROGRAMMING

Python • Java • C++/C • JavaScript •

Bash

LLM MODELS

text-embedding-ada-002 •

text-embedding-3-small •

all-MiniLM-L6-v2 • bert-base-uncased

VECTORDB

FAISS • Chroma

PYTHON

Apache Airflow • Pandas • PySpark •

Django • PyTorch • Spacy • SQLAlchemy •

Scikit-Learn • Flask • LangChain • NLP

JAVASCRIPT

Bootstrap4 • jQuery • ReactDOM

DATA VISUALIZATION

Power BI • Tableau • Grafana • D3.js •

Plotly • Kibana • Dash • Metabase

DB/CACHE/QL

Postgresql • Redis • Hive • MySQL •

Oracle • Hbase • Trino(Presto) • SQLite •

Cassandra

DEV/CI/CD

Jenkins • Docker • Git

CLOUD

GCP-BigQuery • S3(Minio) •

DataProc(Spark) • EMR(AWS) •

SQS(AWS)

EXPERIENCE: 9+ YEARS

WALMART

DATA SCIENTIST | SAMS CLUB | CONTRACT ROLE

Feb 2025 – Aug 2025 | Remote, India

- Built pipeline for "Buy Quantity Estimation" for Seasonal & One-time Items on **GCP** using **Airflow**, **Bigquery** & **GCS**. **#DataEngineering**.
- Working on predicting optimized "Buy Quantity Estimation" for Seasonal & One-time Items using **XGBoost**. **#ML**.

HP

DATA SCIENTIST | FINANCE AUTOMATION | CONTRACT ROLE

May 2024 – Jan 2025 | Remote, India

- Worked on Accounts Receivable Aging predictions for HP products for a period of 6 months in the future using **XGBoost** followed by creating a **Dashboard** in **PowerBI**. **#ML**.
- Created Credit Reconciliation automation **Dashboard** in **PowerBI**. **#BI**.
- Extracted information from PDF/JPG invoices using **OCR**.

ADOBE

DATA SCIENTIST | AD-TECH

September 2021 – May 2024 | Noida, India

- Generated user embeddings from user web browsing data by using **OpenAI's "text-embedding-3-large"** text embedding model and using it to calculate conversion lift. Average 5% MoM increase in ROAS for clients. **#LLM**.
- Optimal spend distribution suggestions across channels using **MVO** for CTR, CPA and ROAS bottom funnel metrics. **#ML**.
- Worked on customer **churn model** and **A/B testing** for AdCloud DSP Platform using spend information and customer feedback **#ML**.
- Worked on generating impressions and conversions reports using identity graph and predictive analytics from LiveRamp and pixel conversion logs and ingesting in Power BI(1 Billion monthly records) **#Analytics**.
- Running jobs on **Airflow** and **AWS EMR** for realtime data Visualization and Ad Campaign Optimization.

SCOTIABANK (CANADA)

DATA SCIENTIST-MANAGER | INTERNATIONAL BANKING ANALYTICS

August 2019 – September 2021 | Toronto, ON

- Developed pricing simulation **Dashboard** for Caribbean operations to simulate changes in fee structures. **#BusinessIntelligence**
- Worked on **customer churn** model and **mortgage rate estimation** for CCAU region. **#ModelMonitoring** **#DataDrift**
- Manage **analytics pipeline** to Scotiabank's Latin America and Caribbean businesses. **#DataEngineering**

#Microservices **#Spark** **#APIs** **#Data Visualization**

DATA SCIENTIST | DECISION SCIENCES

July 2017 – August 2019 | Toronto, ON

- Analyze Electronic Money Transfers using **PySpark** to gather transaction information(Email ID, Acc No., IP) from log files on **HDFS**. **#BigData**
- Developed Reading Comprehension System using **Google Research's BERT model** for SEDAR News documents. **#NLP**

EXPERIENCE:

UNIVERSITY OF WATERLOO | RESEARCH ASSISTANT

September 2014 – May 2017 | Waterloo, ON

- Research on "Multi-Agent Modeling of Risk-Aware and Privacy-Preserving Recommender Systems".

ERNST & YOUNG L.L.P | ASSOCIATE CONSULTANT | IT ADVISORY

June 2013 – July 2014 | New Delhi, India

- Develop & Design UI and Logic using SAP Advanced Business Application Programming. Customize and Develop Data Report and Form Generation.

INTERNSHIPS

SCOTIABANK (CANADA) | INTERN | ELECTRONIC EXECUTION SERVICES

May 2016 – Aug 2016 | Toronto, Canada

- Built Automated email service for traders for daily updates regarding open portfolio positions.

SAMSUNG R&D LAB | INTERN | DATA ANALYTICS GROUP

May 2013 – June 2013 | New Delhi, India

- Extraction of movie trailer links from MovieLens data sets. UI for Samsung Smart TV gesture recognition Application.

D.R.D.O, GOVT. OF INDIA | INTERN | ELECTRONIC RESEARCH

Jun 2011 – Aug 2011 | New Delhi, India

- Designed printed circuit board (PCB) for wireless gas sensor module and performed simulations and circuit analysis. Obtained sensor data on a remote pc using LABVIEW software through wireless communication link.

PROJECTS

- The-Software.Dev • Airflow • Monitoring • Machine Comprehension- Google BERT • High Frequency Trading