

VIPIN DAS

@ vDas@sfu.ca

📞 236-863-2533

📍 Burnaby, Canada

🔗 <https://placemedas.github.io/>

in [vipin-das-09875037](#)

🌐 [placemedas](#)

SUMMARY

- 8+ years of experience in Software Development and Business Analysis predominantly in Banking, Finance and Manufacturing sector.
- 1+ year of experience in Machine Learning, Big Data and Data Analytics.
- Work exposure in both Agile and Waterfall methodologies.

SKILLS

- | | |
|---|---|
| • Languages: Python, R, SQL, Cobol | • Big Data Technologies: Apache PySpark, Hadoop, Kafka |
| • Databases: Cassandra, IBM DB2, Dynamo DB | • Middleware: IBM MQ |
| • EDA Tools: Pandas, Numpy, BeautifulSoup | • Schedulers: Control-M, OPC, Chron |
| • Data Visualization Tools: Matplotlib, SAP Analytics Cloud, Tableau | • Machine Learning Tools: Scikit Learn, Tensorflow, Spark ML |
| • Web Frameworks: Flask, HTML, CSS | • Agile Tools: Microsoft TFS, JIRA |
| • Office Tools: Powerpoint, Excel, Word, Visio | • Transferable Skills: Leadership, Motivational, Critical Thinking |

TECHNICAL WORK EXPERIENCE

Intern, SAP (Analytics Cloud)

📍 Vancouver, Canada

📅 May'20 - Dec'20

- Introduced a chatbot using SAP Conversational AI, Web scrapper and Flask web engine to interact with support teams to quickly discover the on-call contacts across different time-zones.
- Collaborated and communicated with internal stakeholders to track the delivery of transversal features.
- Analyzed operational data using SAP Analytics Cloud to visualize university hiring trends with in various departments of SAP resulting in improved gender diversity ratio.

Teaching Assistant, Simon Fraser University

📍 Burnaby, Canada

📅 Jan'20 - Apr'20

- Assisted in assignment correction and provided teaching assistance on the subject Database Systems to 114 students.

Application Development Specialist(Data Engineering & Analytics), Volvo Group,

📍 Bangalore, India

📅 Mar'18 - Aug'19

- Performed data analysis and demand forecasting for Volvo parts using time series forecasting methods such as ARIMA and Exponential Smoothing to reduce warehouse wastage by 30%.
- Developed and maintained master data ETL frameworks and interfaces for entire Volvo Group using SQL, DB2, COBOL and REXX ensuring continuous operation across all Volvo brands.
- Implemented a streaming environment using IBM MQ and IMS DC to support online API services such as request-reply and publish-subscribe for 100+ teams.

Module Lead/Business Systems Analyst, Mindtree Ltd,

📍 Bangalore, India

📅 Nov'13 - Mar'18

- Elicited business requirements and engaged with multiple stakeholders to integrate IRIS Optical character recognition into American Express Procure to Pay operations resulting in 100% digitisation of invoice process.
- Designed COBOL programs and wrote SQL queries to fetch, join and aggregate data from multiple IBM DB2 tables that contains millions of rows.
- Scheduled mainframe jobs on yearly, monthly, weekly or daily basis using Control-M resulting in continuous data integration.
- Integrated SAP products such as Concur into Accounts Payable process of American Express using complex ETL solutions that are in multiple formats such as csv, pipe delimited etc with in a short span of 8 months.
- Made use of Agile tools such as JIRA to document deliveries and test cases aiding towards better documentation.

Programmer Analyst, Cognizant Technology Solutions,

📍 Chennai, India

📅 Sep'10 - Oct'13

- Aided in offshore design, development and maintenance of IBM Mainframe applications for Northern Trust Corporation, Chicago.

ACADEMIC PROJECTS

Deviation Finder - An Elevator Anomaly Detection System | (Jan-Apr'20) | [Link to project](#) | [Video Link](#)

- Used PySpark to process 75GB of accelerometer data spanned across 15 lifts.
- Carried out data pre-processing activities such as data filtering, Z-normalization and low pass filtering to obtain meaningful data.
- Visualized data using matplotlib to create scatter plots and histograms to capture patterns.
- Applied feature engineering packages such as tsfresh to generate new features.
- Trained 3 different models such as K-Means, LSTM AutoEncoder and ANN AutoEncoder for comparison.
- Validated the model using methods such as Precision, Recall and F1 score to measure accuracy.
- Proposed a scalable streaming data product using Kafka, Tensorflow, Dynamo DB, Plotly Dash and Flask to serve the model.

Crime Analysis and Prediction of crimes in major cities across Canada | (Oct-Dec'19) | [Link to project](#)

- Fetched crime data from various open data sources with different formats such as CSV, JSON using Python REST API calls to collate segregated data.
- Worked on data transformation techniques like location enrichment using packages such as geopy to locate latitude and longitude.
- Applied data aggregation, cleaning and structuring using PySpark dataframes to produce structured format.
- Modeled a NoSQL database using Cassandra DB to store scalable information.
- Created a dashboard of aggregated data using Tableau to generate insights.
- Evaluated Machine Learning models such as Linear Regression, GBT Regression on processed data to predict the number of crimes that can occur at a location.

Prediction of child faces using GAN | (Oct-Dec'19) | [Link to report](#)

- Extracted the facial images of parents using multiple convolutional layers with the help of Pytorch to create tensors.
- Modified an existing generative adversarial network algorithm to predict the image of their child.
- Experimented multiple approaches such as weight initialization and layer changes to improve the model.
- Tried evaluation matrices such as SSIM and PSNR to quantify the similarity of the images.

JOURNALS

- Do more with Less Data - One shot Learning with Siamese Neural Networks published in Medium.com | [Link to Article](#)

EDUCATION

Master's in Computer Science(Big Data Specialization),

Simon Fraser University, Canada (GPA - 4.00/4.33) 📅 Sep'19 – Apr'21

Courses - Machine Learning, Programming in Big Data, Programming in Data Science, Big Data Algorithms

Bachelor's in Computer Science and Engineering

Anna University, India (Percentage - 80/100) 📅 Aug'06 - Apr'10

Major Courses - Data Structures, Algorithms, Database Systems, Computer Programming, Data Mining

AWARDS

- Received **Best Project Award** from SFU Graduate Studies with a scholarship of CAD 3000 for creating an Elevator Anomaly Detection System.
- Winner prized of Rs 5000 awarded by Volvo for designing and creating Smart Dealership - Q3'2018.
- 'Spot' Award by Volvo for exhibiting successful project delivery with zero defect - Q4'2018.
- Received 'Unstoppable' award for continuously meeting client expectation in business analysis - Q2, 2015.
- '**Outstanding Performer of the Year**' achievement for contributing towards cost saving initiatives - Mindtree ,2016.

SELF DIRECTED LEARNING

- Elements of Data Science, AWS Training - Aug'20
- Big Data Fundamentals, IBM - Aug'18
- Programming with Python, Udemy - Aug'19
- Data Science Fundamentals, IBM - Aug'18