PIYUSH DEVIDAS PANDE

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EDUCATION

Indian Institute of Information Technology (IIIT), Nagpur   **Aug 2021-Present**
*Doctor of Philosophy (Ph.D.) in Natural Language Processing **(Pursuing)***

Birla Institute of Technology and Science, Pilani   **July 2017-April 2019**
Master of Technology (M.Tech) – Data Science, CGPA – 5.8/10

K.D.K College of Engineering, RTMNU University   **July 2008-May 2012**
Bachelor of Engineering (B.E.) – Electronics Engineering, Percentage - 61%

PROFILE SUMMARY

- **Data Science Professional with 9 years of experience** in the Banking, Financial Services, and Insurance (BFSI) industry
- 3+ years of experience in banking and risk applications like **SASEFM, Triad, Device ID, Decision system, Blaze Advisor**
- Comprehensive knowledge of **Statistical Modelling** and **Machine learning** algorithms like Regression, Clustering and Classification
- Proficient in **Python and R** (Libraries like Pandas, NumPy, Matplotlib, SciPy, NLP, Spacy, Deep Learning, Tensorflow, and Keras)
- Hands-on experience of working on **AGILE development process (Scrum & Kanban)** and **developing prototypes** along with POCs
- Familiarized with **Model Risk Management (MRM)** framework for model evaluation
- Engaged with multinational clients like RBC (U.S), CITIBANK (U.S), NSDL (IND) and HSBC (US, UK, APAC, ME), CS (Ch, APAC, EMEA)
- Member of **Data scientist community** in HSBC focused to explore more on ML use cases and standing member of Innovation lab devoted to developing **Chatbot, Machine Learning Models, AWS cloud & automation** in the Banking industry
- Mentor with **HBSC Graduates recruits, Internity foundation, Great Lake`s Institute of Management**, **Analytics India Magazine, Women in Data Science Pune (WiDS Pune), and upGrad** for AI, ML courseware to empower the Data Science community
- **Mentored and guided front-end user and Business teams in developing solution design architectures**
- Member of **Board of Editor** for **NLP guide group** in **Citigroup** to review blog, research paper, latest ongoing work in NLP,NLU,NLG.

SKILL SET

Languages: SAS, R, Python
Library: Scikit, NumPy, Pandas, SciPy, NLP, Spacy, Deep Learning, Tensor flow, Keras
ML Models: Predictive Modelling, Deep Learning, Artificial Neural Networks, Convoluted Neural Network, Sequential Models, Traditional Models, Transfer Learning Models
Scorecard Tools: Decision System, Blaze Advisor, PCTMS, Vision plus – Credit cards (Basic)
Tools: R Studio 3.4, SAS V9.2, SAS Viya, Jupyter Notebook, Foundry, AWS S3, Flask, Django
Visualization Tools: Tableau 2019.3, 2020.1.7 and 2021.1.4, Qlik-Sense, NPrinting, R-Shiny,
Agile and DevOps Tools: JIRA, Confluence, GIT, Jenkins, Docker, Kubernetes, Redhat Open Shift
Database: IBM DB2, Oracle 11g, MongoDB, Impala, Spark
Methodologies: Waterfall, Agile

EXPERIENCE

Assistant Vice President – Senior Data Scientist | Citicorp Services India Private Limited, Pune   ***Aug 2022 -Present***
Client Query Management system (QMA)

- Integrated NLP use case with QMA application which is utilized by various cross-functional Operational teams to extract insights
- Implemented Bubble chat using multi class logistics regression to enhance the user experience by molding email conversations into clutter-free chat view
- Implementing smart search using Rasa Framework in QMA to enhance natural language search pattern for user which saved 70-80% user efforts in day to days activity.
- Collaborated with Innovation Lab for use case like Trade status classifier using logistics regression and MLP model Trade enquiry/status Data Extraction from DB and other NLP Model development which will be integrated and consumed in QMA

Exempt Non-Officer - Data Scientist | Credit Suisse Services AG, Pune   ***Dec 2019-July 2022***
Legal Documents Digitalization (Feb 2021- July 2022)

- Transformation of Legal documents (LIBOR & CDU) into the digital mode to draw insights out of digital documents
- Spacy 2.x and Named Entity Recognition (NER) model to extract data from documents based upon various patterns which are stored and identified by Business

Tesla Phase II (Aug 2021- Jan 2022)

- Enabled and integrated Tesla AI to predict exceptional trade user group on Purchase/Sell of a trade by a trader
- Facilitated a Convolutional Neural network to predict user groups and build a training pipeline

Reporting and Visualization (Dec 2019- Jul 2022)

- Drafted and executed daily and monthly reporting using R/Python, and Visualization dashboard using Tableau & Qlik sense
- Fostered development of daily Trade Reporting Automation for users within the bank using languages like R, VBS, and RPA.
- Designed the dashboard to draw quick and insightful conclusions representing various objects such as Pie Charts, Line Charts, Bar Charts, Combo Charts, Gauge charts, Table objects, Straight Tables, Pivot tables, List Boxes, and Multi-Box
- Developed KPI Dashboard (Gauges, Text Objects & Charts) that helps management to make more empowering decisions
- Automated collateral reporting in automating Tables, Charts, and Graph creation using R scripting
- LESR reporting using R and RPA capability benefited from lowered cycle time to submit a daily report with enhanced audibility
- Integration of UiPath with Tableau Using Python API call and showcase insight of UiPath process log over tableau dashboards KPI like efficiency, effort, and performance

Foundry – Compensatory controls (April 2020- Aug 2020)
- Palantir`s Foundry makes machine learning operational by connecting models to real-world decisions. AI/ML algorithms live in experimental vacuums. Facilitated the offerings provided by Foundry and implemented end-to-end infrastructure to deploy AI/ML solutions to real-world problems and real data
- End to End solution from data injection, data cleaning to development of the model, and training of data till deployment of same on the Foundry platform
- Identified exceptions and carried out enrichment on trade transactions with acceptable tolerance levels using python, SQL, and Natural language processing to submit daily transactions data to the compliance body

ANNA and Tesla (Dec 2019- April 2020)
- ANNA includes Trade Data processing for exceptions and recommends corrective action for the same and drives Tesla deals with the Prediction of future trade.
- ANNA Model to predictive US trade analysis based upon Triumph tweets using historical data. To enable traders to decide upon their investment which results in profit/loss.
- Tesla AI to Predict Exceptional Trade user group, previously it was performed by operation team for Purchase/Sell of a trade by a trader which showcased Tesla portfolio which was around $0.87M and improves 16% in trade processing

Senior Software Engineer| HSBC Software Development India Private Limited, Pune   *April 2015-Nov 2019*
- Restructured and rebuilt TRIAD 7.0 decision system while acting as a SAS Viya- Decision Manager
- Enhanced credit segment classification model using logistics regression, Decision tree, and Random Forest methodologies
- Developed and delivered Saudi British Bank (SABB) Scorecard project from scratch onto Blaze Advisor platform
- Delivered Triad Decision system (DS) to Blaze Mitigation scoring project onto Blaze Advisor, testing it on mainframe and baselining it and accordingly strategies were altered based on the requirement of the PCTMS side
- Implementation of support portal along with coordinating the implementation of change requests
- Coordinate with HTS folks for problem resolution, Vendor and stakeholders' management and supporting third-level support groups along with active participation in the crisis calls
- Resource management delivering mentoring and training along with additional co-ordination for change management

Software Engineer | Future Focus Private Limited, Pune   *Oct 2013-April 2015*
- Planning and Maintenance of Taxation Reporting System along with development of various processes like form 1099, 2439
- Spearheaded the creation and maintenance of Commercial Credit Card accounts from scratch to go live
- Implemented systems for smooth and hassle-free processing and transmission of Payments and Invoices
- Monitoring Mainframe LPARs (Production, Development, Test, and DRS) and managing the Operations of a Data Centre
- Coordinating and brainstorming on problem for resolution with the vendor or second-level support groups

CERTIFICATES
- Genpact`s Data Science Prodegree Certification, Imarticus learning, Pune
- Google Cloud Platform Fundamentals: Core Infrastructure, Machine Learning Certification (Stanford University), AI TensorFlow Developer Certification from Coursera, Machine Learning Engineering for Production (MLOps) from Coursera
- Great lake`s Machine learning foundation and Tableau Analyst from Tableau eLearning

TRAINING
- Blaze Advisor, Decision System, PCTMS & Triad by Fair Issac Corporation (FICO)
- Deep learning, Natural Language Processing (NLP), and Computer vision by INeuron.ai

AWARDS
- Awarded as Outstanding Performance for Global Risk SWD projects in the year 2017 (Q1)
- Awarded as Outstanding Performance and Spot awards for Decision system (DS) to Blaze Advisor Mitigation Project

ONLINE TRAINING AND WEBINAR
- Delivered Webinar on "World of Data Science: its Scope and opportunity" in Association with KDK College of Engineering, Department of Electronics, Nagpur on 16th June 2021