Gopal Krushna Padhi

Senior Data Scientist

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SUMMARY

Experienced Data Scientist Working as a Senior Software Developer for TIAA with PG Diploma in Data Science from IIIT Bangalore and Graduation from the Biju Patnaik University of Technology. Odisha. Proficient in creating various Machine Learning, Deep Learning models, Time series Forecasting models using Python , Big Data analytics using apache hive and PySpark and Model Deployment with Flask, AWS, Docker etc.

PROFESSIONAL EXPERIENCE

Senior Software Developer(ML&AI)
May '17 - Present

TIAA
Pune, IN

TIAA is a Fortune 100 financial services organization that is the leading provider of financial services in the academic, research, medical, cultural and governmental fields.

- As a Data Scientist my primary goal is to **reduce operational cost** for our organization which will result increased profitability. I have worked few of the machine learning projects mentioned below
- Able to reduce cost spent on marketing by **more than 20%** by creating a Machine Learning model which can predict the probability of customer enrolling in the product .
- Conducted expensive data analysis and used my business understanding to build a end to end **Risk analytics model** which is able to **predict probability of the customer Defaulting their Loans**
- Used my in-depth Business understanding to develop these classification model using Python(Pandas),Numpy , SKlearn ML packages like L**ogistic Regression, Decision Tree , Ensemble Models like Random Forest , XGB and Neural Nets** to build a model with more than .9 Roc-AUC score on a imbalanced data set
- Also familiar with **Bigdata Analytics** and can process Bigdata using **Pyspark** .Can build **Time series forecasting** models , **Deep Learning Models** for unstructured data using **Tensorflow Keras** etc , Model Deployment using **Flask , Docker** into Cloud servers like **AWS , Heroku**

Product Specialist
May '13 - Apr '17

Cognizant Technology Solutions
Kolkata, IN

Cognizant is an American multinational technology company that provides business consulting, information technology and outsourcing services.

- Developed Various **applications and automation tools** to solve business problems and reduce development effort.
- **Improved batch cycle performance** by analyzing and changing various production components.
- Day to day responsibilities include requirement gathering, analysis, development, unit testing, and deployment.

TECHNICAL SKILLS

- **Languages**: Python Scripting , PySpark ,Shell Script ,Cobol , Omni Script etc
- **Cloud Computing:** Amazon AWS
- **Database**: MySQL, IBM DB2 , HDFS ,MSSQL
- **Machine Learning Technologies**: Linear/Logistic Regression, Ensemble Trees, Gradient Boosted trees , Neural Networks (CNN,RNN,LSTM and Transfer Learning) ,Holt's Winter & SARIMAX etc. for Time Series Forecasting .
- **Big Data Ecosystem :** Hadoop , Apache Hive , Spark,
- **Data Visualization Techniques :** Tableau , Seaborn and Matplotlib
- **Other :** Data Analysis , Data Mining , Working with Complex data sets , Statistical Methods, Quantitative Analysis , Risk Analytics ,NLP ,Keras, PyTorch, TensorFlow

KEY DATA SCIENCE PROJECTS

- **Domain: Telecom | Tech Stack: Python, Random Forest, XGB | Sep '19**
  - **Objective**: Identify customers who have higher risk of churn from the stack of highly valued customers .
  - **Solution**: Designed a machine learning models like Logistic regression , Random Forest and XGB etc. .
  - **Key Achievement**: Developed a model with an **Accuracy of 87%**

- **Domain: BFSI| Tech Stack: Python, Random Forest, XGB | Dec '19**
  - **Objective**: Building a Machine Learning model to identify the **fraudulent credit card transactions** to reduce time-consuming manual reviews, costly charge-backs and fees, and denials of legitimate transactions.
  - **Solution**: Trained different models including Linear model, Random Forest, XGB & Neural Networks
  - **Key Achievement**: Developed a XGB model with a **Roc-AUC** score of **94%** and **F1-score** of **80%.**

- **Domain: E - Commerce | Tech Stack: Python, CNN,RNN,LSTM | Jan '20**
  - **Objective**: Designed a deep Learning model predicts 5 gestures such as Swipe Left, Swipe Right, Thumbs Up, Thumbs Down and Stop, for a cool feature in a smart TV.
  - **Solution**: Final **CNN + GRU Deep Learning model** with Transfer Learning with a **96 % validation accuracy** and achieved a computational **low sized model of 44mb only**.

EDUCATION

Post Graduation Diploma in Data Science
Aug '19 - Aug '20

IIIT Bangalore
Bengaluru, IN

- **Course Modules:**
  - Data Analysis in Excel | Analytics Problem Solving | Data Analysis using SQL | Introduction to Python | Inferential Statistics | Hypothesis Testing
  - Introduction to Machine Learning and Linear Regression | Logistic Regression | Tree Models | Decision Tree | Random Forest | Boosting
  - Deep Learning and Artificial Intelligence |CNN | RNN |LSTM
  - Big Data Technologies | Hadoop |Apache Hive | Apache Spark | Apache Sqoop
- **Secured 3.86/4 CGPA**

B. Tech. in Electronics and Communication Engg
Aug '09 - Jul '13

Biju Patnaik University Of Technology
Bhubaneswar, IN

Learned Basics of Computer Programming with C & C++

- **Secured 7.5 CGPA**

KEY ACHIEVEMENTS

- Received VOYA HOTSHOT Award for Delivery excellency in my first year of employment .
- Awarded Academic Star for outstanding performance in the PG Diploma Course
- Received multiple PAT on the BACK and Multiple Quarterly Awards for performance excellence .