Gopal Krushna Padhi

Senior Data Scientist

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.

📞 +919438655444   ✉ gopalpadhi8@hotmail.com   📍 Pune, IN   ⌂ www.github.com/Gops-8
in www.linkedin.com/in/gopal-padhi

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.

- Developed a **Time series forecasting model** to predict incoming traffic (No of Transactions for nightly batch cycle) which helped to better resource management and reduce cost of operation .
- Due to accurate forecasting results, the cost of licensing is **reduced by 20% approx.**
- Conducted extensive research on market data for new enrollments (**acquisition analytics)** and applied various machine learning techniques to build dynamic **models to** predict customers who are more likely to enroll and reduced **marketing cost by 20%** .
- Conducted extensive Data analysis and build a predictive risk model to identify customers who are likely to **default their loans** ,by accurately identifying risky customers we was able to save on **operational cost** hence increase in profitability by **10-20%** .
- Developed different machine learning & Deep Learning models for the above mentioned projects like Logistic Regression , SVM, Random Forest ,Decision Trees , Neural Networks , Holt's Winter , SARIMAX , XGB etc .

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.

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**

TECHNICAL SKILLS

- **Languages**: Python Scripting , PySpark ,Shell Script and C
- **Cloud Computing:** AWS, EC2, S3
- **Database**: MySQL, IBM DB2 , HDFS ,MSSQL
- **Machine Learning Technologies**: Linear/Logistic Regression, Ensemble Trees, Gradient Boosted trees , Neural Networks (CNN,RNN) ,Holt's Winter & SARIMAX etc. for Time Series Forecasting .
- **Big Data Ecosystem :** Hadoop , Apache Hive ,NoSQL, 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 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 .