ISHAN P. BORKER
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LANGUAGES: English, Hindi, Konkani, Marathi, Sanskrit, Working knowledge of Japanese (N5 Level) and German (A1 level)

DATE OF BIRTH: 11th August 1993
PASSPORT NO: K0626125

EDUCATION
Master Of Technology in High Performance Computing at C-DAC, Pune and Veltech University, Chennai, 2015-2017, 8.61 C.G.P.A.
Bachelor Of Engineering in Computer Engineering at Goa College of Engineering, Goa University, 2011-2015, 70%
HSSC at GOA BOARD, 2010-2011, 74%
SSC at GOA BOARD, 2008-2009, 82.17%

KEY SKILLS
Machine Learning libraries: Numpy, Pandas, Tensorflow, Keras, SciPy, seaborn, Scikit-learn, Plotly-dash, Matplotlib, Tensorboard
Algorithms: Classification, Regression, Clustering, Boosting, Time series forecasting, yolov3, Faster RCNN, Mask RCNN
Programming languages: Python, JSON, R, C++, Java
OS: Linux, Windows, macOS
Technologies: HTML, JS, PHP, Jupyter notebook, Google colab, Kaggle notebook, FHIR, POSTMAN, Github, Gitlab, Docker
Database Technologies/BI tools: MySQL, SpagoBI, Tableau, Power-BI, GNU-plot, Excel

PROFILE
AI professional with 3.5 years of experience in software development, data science, machine learning, research and development (R&D). Seeking to advance my career in **Data Science, Machine Learning, Artificial Intelligence, Computer Vision** and effectively apply my professional, technical skills in diverse portfolios. Flexible, team player, keen to implement new technologies as per emerging market and customer needs, ready take up challenging roles

EXPERIENCE
Technopro India (TPRI Technologies), Bengaluru as Machine Learning Engineer, Dec 2020 – Present
- Worked on semi-automated annotation using CVAT and ML algorithms like YOLOv3, Faster RCNN, Mask RCNN and manual annotation using LabelBox, LabelImg
- **Smart farming**: Implemented tomato image classification based on image data using SVM, KNN, MLP, Logistic Regression
- **Reviewer Analysis:** Analyzing reviewers incident data using python in graphical format
- **Object Detection using YOLOv3:** Working on detecting car parts in images and training model using YOLOv3, keras, tensorflow, performed image annotation using VoTT

Molecular Connections, Bengaluru as Senior Software Engineer, Jul 2020 – Oct 2020
- **EHR Predictive Modelling**: Cleaned the EHR data, performed EDA, created visualization, correlation on varied features, performed binary encoding on various lab values, trained the machine learning model to calculate accuracy, precision, exported model on the server using joblib/pickle, explored plotly-dash

- **FHIR HL 7**: Implemented Formal Concept Analysis, JSON files parsing, FHIR Parser, worked on HAPI FHIR Server by creating resources from JSON, tested REST operations on POSTMAN, created own FHIR Server, executed python code to upload JSON files, created bundle transactions

Rubixe™, Bengaluru as Data Science Consultant (Part-time), Dec 2019 – Jun 2020
- **Employee Performance Analysis**: Cleaned the data, performed EDA, created a visualization to find department wise employee performance, built models to improve it using machine learning (ML) algorithms like Random Forest, Gradient Boosting, XGBoost, ANN, KNN, Logistic Regression, SVM, Decision Tree with highest accuracy of 96% using Gradient Boosting, used feature engineering, Grid & Randomized Search CV, SMOTE

- **Spare Parts Inventory Management**: Cleaned, analyzed the spare parts data, created visualization using python libraries, built the model using time series forecasting algorithms, achieved better predictions for ARIMA algorithm

- **Improving IT Service Management**: Imported data from server, performed EDA, implemented prediction on priority tickets, reassigned tickets using ML algorithms with highest accuracy of 86%, implemented ARIMA, SARIMA on incidents, achieved better predictions using Rolling Forecast

- **Sales Prediction**: Used SMOTE for handling imbalanced datasets, PCA for dimensionality reduction, predicted the status of sales potential using ML classification algorithms, achieved 72% accuracy, plotted ROC, precision-recall curve

- **Telecom Churn Prediction**: Predicted churn using ML classification algorithms, achieved highest accuracy of 97%, used K-fold, Stratified K-Folds CV to improve model performance, plotted ROC, precision-recall curve, calculated churn-risk score using probability factor, exported model on server

INTERNSHIP EXPERIENCE

Rubixe™, Bengaluru, Data Science Intern, Mar 2020 – May 2020

AI for Hiring: Designed business proposal for student academics & placement data, built model for placement prediction using ML classification algorithms, published research paper in IJSR

Goa Electronics Limited, Goa, Project Intern, Oct 2018 – Nov 2018

Analyzed compliant government websites, designed SRS for labor & employment, land dispute, fire & emergency services, created flowcharts for employment exchange services

CSIR-NIO, Goa, Project Intern, Dec 2013 – Jan 2014

Research on robotic OS, worked on serial port program to transfer data from one USB port to another

C-DAC ACTS, Pune as Project Intern, Jun 2016 – May 2017

M.TECH Project: "Parallelization of Backpropagation Algorithm using OpenMP"

- Algorithm was implemented in serial manner to calculate the gradient of loss function and OpenMP technique was used to execute parallel code to improve efficiency, time
- Benchmarking was done on Intel 64-bit, Intel Xeon architectures as a part of result analysis, achieved better performance of parallel programs on Intel Xeon Phi Processor
- Carried out the dissertation work, presented the survey paper in international conference and published research paper in international journal

ACTIVITIES AND INTERESTS

Playing all kinds of games, Listening to music, Reading books, newspapers, and magazines, Watching the news and movies, Cooking

- **Bank Good Credit Score**: Imported Customer Accounts, Demographics, Enquiry data from server, created visualization to check factors influencing the customers having good or bad credit history, implemented machine learning classification algorithms, achieved 95% accuracy

Digiapt Software Technologies, Bengaluru as Associate Software Developer, Oct 2019

- Used Google spreadsheet to gather different company data from MCA, Tofler etc., worked on Tableau to categorize them, My Maps to plot the location on Google, Scrapy to scrap websites, used Snovio to capture email of employee, achieved official email with the designation

Eaglys Inc., Tokyo, Japan as Research Engineer, Dec 2018 – Jul 2019

- **Back Office system for Man-hour Management**: Captured attendance spreadsheet from Google Drive using python, generated reports in the form of graphs, presentation

- **SecureDB Product**: Tested SQL queries, implemented fuzzy keyword search on encrypted database, achieved API documentation using Natural Docs, PyDoc
- Research on homomorphic encryption and implemented codes using HElib inside docker

Teczuno Global India, Bengaluru as Data Analyst, Apr 2018 –Aug 2018

- Gathered data from government website, helped in application development to locate start-up company using Tableau, built concepts using data from Healthcare, Automotive, Agriculture as part of pre-sales support

Anant Infomedia, Panaji, Goa as Project Trainee, Aug 2017 – Feb 2018

- **Predicting employee attrition using Azure Machine Learning Studio**: Designed models using machine learning algorithms like classification, regression, clustering, anomaly detection

- **Data Analysis using SpagoBI**: Used MySQL, SpagoBI for Data Analysis, created dashboards, cockpits for compliances, developed OLAP, BIRT, deployed them on the SpagoBI server, designed codes using PHP, JS, HTML, views using MySQL

ACADEMIC PROJECT

B.E. Project: "Climate Data Analysis using Mapreduce"

- Meteorological data storage and platform based on Hadoop framework was constructed using MapReduce
- ARIMA time series prediction algorithm was integrated into the system to produce efficient query and analysis, weather forecasting

CERTIFICATIONS

1. Paper publication "Artificial Intelligence for Hiring" in IJSR
2. CDS & Data Science Foundation by International Association of Business Analytics Certification, Amsterdam
3. Deep Learning specialization by Coursera and deeplearning.ai on coursera.org
4. Certified Data Scientist course completion certificate by DataMites, Bengaluru
5. 1st prize in National Summer Training Program on "Bigdata & Hadoop" by Revert Technology Pvt. Ltd., EDC-IIT Roorkee
6. Paper publication "Parallelization of Backpropagation algorithm & Benchmarking" in IJCR
7. AMCAT examination - 77.72 percentile
8. Presentation on "Backpropagation Algorithm & use of OpenMP in ML" in International Workshop on IOT & TV White Spaces
9. Diploma Course in Java programming with JDBC, C programming at MICE