JHANCY AMARSINGH

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EDUCATION

University of Maryland, Baltimore County — Maryland, USA
Master's of Science in Data Science — *Aug 2021 to Dec 2022* — **GPA : 3.8**

PSG College of Technology — TamilNadu, India
Bachelor's of Engineering in Computer Science — *Aug 2010 to May 2014* — **GPA : 3.4**

TECHNICAL SKILLS

Language/DB : Python, C#, MongoDB, SQL
Developer Tools : Jupyter, Spyder, Visual Studio, GitHub
Competences : Machine learning, Deep Learning, NLP, Data Science, Embedded systems
Frameworks : Tensorflow, Dialogflow
Cloud Platform : Microsoft Azure
Methodologies : Waterfall, Agile

PROFESSIONAL EXPERIENCE

UMBC, Research Assistant**,**, *Maryland, USA* — Aug 2021 – Jan 2022

- Privacy management tool to anonymize packet header data/network flow data, and obtain sufficient privacy &data utility.
- Anonymized data and measured the accuracy and privacy rate of 6 different algorithms/tools like ARX, Amnesia

Lumen Technologies, Senior Data Scientist, *Bangalore, India* — Mar 2019 – Aug 2021

Clients*: Ameritrade, Toyoda, Broadway*

- Foot traffic analysis using CISCO Meraki router data based on the RSSI Signal strength distribution in 270 locations. Exponential WMA, KNN clustering, Azure cosmos DB, flask, and scheduled in azure web jobs.
- Predictive maintenance of injection molding machine emergency stop ON, 8 hours prior with imbalanced production log files. Applied Random Forest , XGboost to get 80% recall by selecting 32 significant features.
- Formulated project management plans, and created work schedules for the team of 5 to sustain timely completion.
- Constructed Data Source Analysis Document, Source to Target Mapping, Handbook, and Analysis document.

Clients*: Internal Research*

- Created Chatbot for traders with live & historic data for Nifty100 stocks; Performed time series analysis (ARIMA) to forecast stock prices by using Data Factory, Data lake pipeline, and blob storage and PowerBI.
- Collected and labeled training dataset of 500 web element images and trained RCNN Inception model to convert Wireframe to webpage form using Tensor Flow object detection to achieve 90% accuracy.

Accenture, Data Analyst, *Bangalore, India* — Jun 2017 – Mar 2019

Clients*: Presto, Travelers, Pearson*

- Analyzed the device logs and developed Machine Learning Classification model to improve the Production support performance by 20%. Cross-trained, educated, and mentored co-workers.
- Used SQL queries and logs provided insights to recover the device back to in-service mode. Worked with stakeholders to identify opportunities to leverage device data to drive actionable Business analytics solutions.

Accenture,Software Devloper, *Bangalore, India* — Jun 2014 – Jun 2017

- Implemented Design Patterns and built Embedded WINCE app deployed on 5000 FTP devices to validate fare payment.
- Coded around 10000 lines for NFC reader, Web services, CRE XML integration, and Business Logic.
- Unit Testing with code coverage of 90 % and System Integration testing and delivered code with no critical defects
- Developed WCF application for getting the estimated insurance home quote based on partner selection and fixed the production defects by brainstorming the probable fixes.

CERTIFICATIONS

Microsoft certification (70-532) in Developing Microsoft Azure solutions | Microsoft certification (70-515) in Programming with C#

OWN PROJECTS

Conducted seminars and workshops on Data Science, Python , Career guidance in which 1000s of students have attended.
Designed and created own finance assistant chat and voice bot to get insights about our family expense patterns.

COURSEWORK

Data structures, Discrete structures, Stochastic Models, System software, Machine Learning, Natural Language Processing, Optimization techniques, Data mining, Genetic algorithms, Big Data Processing, Financial Data Science

ACADEMIC PROJECTS

Image compression with minimized loss: Implemented firefly algorithm to solve constraint-based optimization problems in Digital Image Compression and Image Processing, Structural design, Clustering, Eigenvalue optimization.
Single Sign On: Unified approach that enables the user to browse multiple related web applications by authenticating just once.
Investment Guide: Chat bot for Stock recommendation and prediction based on the risk, return and duration upto 70% accurate.