MADHU BANDRU

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**SUMMARY**

A Result-oriented **Data Scientist** with 7 years of IT experience including 2 years of experience in problem-solving, exploratory data analysis, data mining, machine learning, data visualization, deep learning, and AI and 5 years of experience as a product developer in the Insurance domain. Seeking to execute end-to-end data driven solutions utilizing my technical expertise in ML & implement novel statistical techniques in solving critical problems and expedite business profitability.

**EDUCATION**

MS in **Data Science**, Drexel University (GPA **3.93/** 4.0) **Sept 2019 – Jun 2021**

**TECHNICAL SKILLS**

**Programming Skills:** Python (Regex, Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Keras), NLP (Spacy, Genism & NLTK), Pyspark, ML (Linear & Logistic Regression, Decision Tree, Random Forest, K-means, K-Nearest Neighbor, Support Vector Machine, Naive Bayes, Deep Learning – Convolution Neural Networks), OpenCV, SQL, HTML5 & COBOL

**Frameworks:** Flask & Django

**Databases:** DB2, MongoDB & MySQL

**Visualization Tools:** Tableau, Orange, RawGraphs & Gephi

**Environments:** Jupyter, Spyder, Google Colab, Visual Studio, Atom & PyCharm

**Cloud Services:** Microsoft Azure, Google Cloud

**Tools & Softwares:** GitHub, Jira, Algorithmia, Silva, Travis-CI & MATLAB

**Application Suits:** Microsoft Office, Excel & Powerpoint

**PROFESSIONAL EXPERIENCE**

# DXC Technology Sep 2019 – Present

## Data Scientist | Philadelphia (USA)

## DXC Industrialized AI Starter – Aimed to develop a sophisticated open-source python library for reducing the efforts spend on data science life cycle tasks and making easy to develop and deploy AI algorithms. -[GitHub](https://github.com/dxc-technology/DXC-Industrialized-AI-Starter)

* Led the team of 5 data scientist in building the end-to-end opens source python package right from preliminary phase.
* Built efficient functions for data loading, data cleaning, image recognition, text classification and conducted web scrapping for collecting various types of data.
* Played active role as scrum master in scheduling daily standups, sprint planning, spring goal review and ensuring team lives agile values and principles.
* Developed automated test scripts for continuous integration/continuous development (CI/CD) process.
* Contributed for GitHub repository maintenance and code verification for new changes deployment.
* Prepared well documented user-guide and example notebooks for AI starter functions.
* Handled JIRA tool for creating and assigning user stories/tasks to team.
* Prepared and presented roadmap and product releases to DXC leadership team.
* Proactively prioritized tasks and delegated within team to meet the milestones.
* Organized bootcamps to implement AI technologies using DXC AI Starter python library and mentored bootcamp participants to resolve blockers.
* Delivered presentations to various teams in cross knowledge sessions.

**Low Code No Code** – Aimed to develop a user-friendly dashboard using Node-Red to execute and experience data science life cycle tasks.

* Contributed for development and integration of AI starter using Node-Red visual programming tool.
* Developed nodes for data cleaning and data management in Mongo DB.
* Performed unit and functional testing for the modules developed under low code no code.
* Executed deployment to rollout tested functionalities into local and cloud services.

**NatWest Bank (Scotland)** – Aimed to develop an AI application for budget saving recommender system.

* Under data management, collected client test data from sandbox using postman.
* Classified customer bank transactions using supervised classification model with low false negative cases.
* Developed expenses recommendation system to help customer reach budget goal based on their spending patterns.
* Followed agile methodology and delegated tasks within team to meet the sprint goals.

# DXC Technology, India Sep 2014 – Sep 2019

## Professional product Developer | Hyderabad (India)

**AXA Insurance (Asia Project – Development, Support & Maintenance)** – Aimed to develop and support various business (group and polisy insurance) functionalities and provide quality product to client users.

* Application Analysis and Development of Insurance domain project using COBOL & SQL languages.
* Drafted initial estimation documents for proposed new requirement.
* Managed new change requests and documented functional and technical design scoping.
* Analyzing and fixing the bugs during Unit, Function and System Integration testing.
* Support and performing health check pre and post deployment of code to production.
* Presentation of the design in demo meetings to clients.
* Segregated user raised issues on case-to-case and assigned to team.
* Timely response to user on the latest status of the issue.
* Held meeting to check on the progress on the tickets and keep posted users on same.
* Coordinated with offshore and onshore teams on the issues progress.
* Prepared clarification logs for the new projects before deployment signoff.
* Generated WSR – Weekly Status Reports and presenting to clients.

**ONSITE ASSIGNMENT**

* Played crucial role as a **Technical Consultant** for 1.2 years in Malaysia between 2017 and 2018.
* Resolved critical issues by directly interacting with clients and their end users, which gave fabulous experience about client business.
* Handled the users in a satisfactory manner, which resulted in Zero escalation and gaining clients confidence and a lot of appreciations as well.

**ACADEMIC PROJECTS**

* Built models for **early cancer detection** using the novel blood test “cancer seek” to identify patients in early stage. -[GitHub](https://github.com/madhubandru/Early-Cancer-Detection.git)
* Developed application for **Social distance monitoring** using HOG, DNN models and computer vision package. -[GitHub](https://github.com/madhubandru/Social-Distance-Monitoring)
* Collecting & building rental property dataset using **web scrapping** technique. -[GitHub](https://github.com/madhubandru/Building-rental-property-data-set-using-web-scrapping)
* Developed Django application for **used car price prediction** using random forest regression model. -[GitHub](https://github.com/madhubandru/Used-car-Price-Prediction)
* Built flask web application for **graduate admission score** to predict admissions chances based on student scores. -[GitHub](https://github.com/madhubandru/Graduate-Admission-Score-Check)
* Created flask web application for **text-based search engine** web application to filter books based on user key word. -[GitHub](https://github.com/madhubandru/Text-based-search-engine)

**ACTIVITIES & ACHIEVEMENTS**

* Awarded DXC Industrialized [**AI Mentor**](https://api.badger.services/public/assertions/665242a4-c6ae-4f33-baa1-01ebaff3563a?email=mbandru2@dxc.com), [**AI Master**](https://api.badger.services/public/assertions/079952c2-5b06-4267-ab67-fd4cbd34c6fc?email=mbandru2@dxc.com), [**AI Data Scientist**](https://api.badger.services/public/assertions/9f0734a7-e91b-4d28-95a7-d3fbdf56258e?email=mbandru2@dxc.com)**,** [**AI Leader**](https://api.badger.services/public/assertions/345c5ced-aa59-4cd3-9f2b-d9fe8fd346b0?email=mbandru2@dxc.com) & [**AI Data Engineer**](https://api.badger.services/public/assertions/c1bbc50f-83d8-4cb6-8167-ad914679d510?email=mbandru2@dxc.com) Badges.
* Elected as **Vice-President** for Drexel Indian Grad Association for year 2020-2021.
* [**IBM certified**](https://www.credly.com/badges/f7fade6f-6e95-4475-9db7-c0199fb65bb3?source=linked_in_profile) for Machine Learning with Python.
* Awarded **1 SPOT** Award for the great job done at onsite, thus gaining customer confidence and appreciation.
* Awarded **2 KUDO** Awards as recognition of Hard Work and Achievement for successful deployment of critical project in minimal timelines.

**CERTIFICATIONS IN PROGRESS**

Azure Associate Data Scientist – expected by June 2021 || Azure Associate Data Analyst - expected by June 2021

**MASTER’s COURSE WORK**

Data Acquisition and Pre-processing || Programming Foundation || Data Analysis and Interpretation || Data Mining || Social Network Analysis || Applied Machine Learning || Information Visualization || Data Science Capstone || Applied Cloud Computing || NLP with Deep Learning || Human Computer Interaction || Information Retrieval System || Math or Programming Foundation