Abhinav Anand

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SUMMARY

5+ years of IT experience in handling and analyzing data across multiple domains. Having a good track record of building successful predictive models on gathered data by implementing Machine Learning and Neural Network techniques and algorithms. Highly adept at classification, regression and clustering ML techniques and leverage algorithms to provide better automated solution of repetitive business problems. Well versed in creating and tuning Artificial Neural Network , Computer vision and Text Analytics . Efficiently implemented Deep Learning techniques in multiple use cases related to Gesture recognition, Image recognition etc.

KEY SKILLS

Machine Learning Methodologies   **Statistics**   **Python**   **Deep Neural Network**   **Computer vision**   **Tensor Flow**

Recurrent Neural Network   **Natural Language processing**   **Sybase ASE**   **Quantitative Analysis**

Predictive modeling   **Data Visualization techniques**   **RDBMS**

KEY PROJECTS

- **Project EWSA (Early warning system on Artis)**
  Domain : ITES | Tech Stack : Python ,Pandas

  - **Objective** : Early warning to database engineer about probable Transaction failure
  - **Solution** : Designed a machine learning model using logistic regression algorithm to predict status of transactions.
  - **Key Achievement** : Model able to predict with 97% accuracy and with a balanced precision and recall

- **Project : Technician Dispatch Automation**
  Domain : TELECOM | Python , pandas, NLTK

  - **Objective** : Recommending best suited technician on faulty site
  - **Solution** : Used the combination of machine learning and Natural language processing to achieve goal
  - **Key Achievement** : This intelligent randomization process speed-up trouble shooting process , reduces TAT(turn around time) which lead to significant increase in customer satisfaction rate.

- **Project Name : Doc Auto Vision**
  Domain : Human Resource (HR) | Tech Stack : Python, Tensor Flow

  - **Objective** :To provide first line of support while filling document data .
  - **Solution** : Used computer vision concept with the help of deep neural network to extract information from the given document.
  - **Key Achievement :** Expedite and hassle free solution for document filling , this AI powered approach help to eliminate human error and repetitive Task **.**

WORK EXPERIENCE

Software Engineer   Aug '18 - Present

Lumen Technologies   Bangalore

Lumen is formerly known as CenturyLink , it is a 90 years old telecom company and 3rd largest in USA.

Analytics & Machine Learning Methodologies

- Conducted extensive research on **resource optimization** in database and IT infrastructure sector
- Applied various ML Algorithms to maximize profits by optimizing resource utilization and allocation.
- Gathering resource allocation data from more than 300 instances for performing **exploratory data analysis**.
- Assembling best suited algorithms **regularization** and **boosting techniques** for any problem sets.
- Created models for image processing using deep neural network and **computer vision** to reduce the human effort in document reading.

Optimization & Algorithm Development

- Contributed key role to create a **recommendation engine** to suggest an ideal technician for faulty site
- Deployed multiple **loss minimization** & optimization techniques as part of tuning the model
- Developed an **algorithm** for **yield management** by analyzing the resource optimization trend
- Monitoring model **performance** and **evaluation metric** and changing code where and when required to improve model
- Modifying and tuning 3+ live models based on the changing nature of data

Software Engineer

Mar '16 - Aug '18

DXC Technology

Bangalore

DXC Technology is an American multinational corporation that provides business-to-business information technology services. More than 100 thousand employees work for DXC Technology

Database Management
Client - Deutsche Bank
Responsibilities:

- Organized and maintain a central application that gather information about the all **SQL instance** with in the **DB server**.
- Ensured expedite **SQL query optimization** and database performance tuning on both Sybase ASE and IQ server
- Instituted multiple **load balancing methodologies** for maintaining **high availability** for reduce down time
- Expanded mechanism to review storage allocation, identify **growth rates** and project storage requirement for future growth.

EDUCATION

Post Graduate Diploma in Machine Learning and Artificial Intelligence

Feb '20 - Feb '21

IIIT-Bangalore

Bangalore

Course Modules:

Math for Machine learning | Python |Data visualization | SQL| Inferential statistics | Exploratory data analysis |
Linear regression | Regularization techniques | logistic regression |Tree modeling | Ensemble methods | Clustering Algorithm
Natural Language Processing | Text Analytics | Deep learning | Neural Networks | Computer Vision | Gesture Recognition

Business Case Studies :

- Housing price prediction : - Based on Multi Linear Regression and regularization techniques | I**ndustry : Real Estate**
- Telecom churn rate prediction : - Applied Classification Algorithm (Logistics Regression) | **Industry : Telecom**
- Chatbot : - Using NLP and RASA Core/NLU | **Industry : Retail**
- Gesture Recognition : - Based on Deep Neural Network and Convolution Neural Network | **Industry: Electronics**

PG Certification in AI & DL

Jun '19 - Dec '19

Manipal University

Bangalore

Course Modules:

Python for Data science | Pandas | machine learning | Natural
Language Processing Tensor Flow | RASA| Deep Neural Network |
CNN| RNN

B-Tech

Jul '10 - Jul '14

BPUT Rourkela, Odisha

Bhubaneswar