

PRANAB DAS

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Professional Summary

A dynamic Machine Learning Engineer with 2.5 years of software development experience at Infosys Limited. A Lifelong learner, passionate to explore the horizons of smart models. Holds expertise in Python, Data Analysis, SQL and .NET MVC. Implemented Python libraries to build machine learning models for various clients involving business understanding, data analysis, statistical modeling and text analytics.

EDUCATION

BCA: West Bengal University of Technology –
DGPA 8.48/ 10.0 (2013 – 2016)

SKILLS

Language: Python, R, C#
Database: SQL Server 2012/2014, Oracle

Technology: Data Science, Machine Learning, Python
Scikit-Learn, Pandas, Numpy, NLP, Git,
Seaborn, Matplotlib, ggplot, Azure Chat
bot, LUIS, Asp.net MVC, SQL Server,
SSIS, JQuery, Linux.

Tools Jupyter Notebook, Azure, GIT,
Visual Studio, TFS

ACHIEVEMENTS & CERTIFICATIONS

- 2018 Udacity, Machine Learning**
Completed Machine Learning Nanodegree
from Udacity on July 2018
- 2018 Andrew NG Stanford, Machine Learning**
Completed Andrew NG's Machine Learning
course from Coursera on September 2018
- 2018 Data Structures & Algo. using Python**
Completed certification from NPTEL.
- 2019 Applied AI Course, Machine Learning**
Ongoing Machine Learning course from **Applied
AI Course** website.

PERSONAL PROJECTS

2018 [Explanatory Data Analysis using Python](#)

Analysis of students' performance based on their exams marks in College.
The aim is to understand the influence of various factors like economic, personal and social on the students' performance.

2018 [Data wrangling with Python](#)

Web scrapping was used to extract data from twitter-
"WeRateDogs" account. The dataset was assessed and
cleaned using python.
Finally inferences were drawn of the cleaned data and
presented in form of graphs and visuals. The project is
uploaded in Github. Please find the above link.

2018 [Data Visualization with Tableau](#)

The project included data visualizations about the
survival and death rate of passengers based on wealth,
age group travelling in Titanic. The project is uploaded
in Github. Please find the above link.

EXPERIENCE [reverse chronological order]

Project Title: Chat bot Development using Azure (**Nov 2018- Present**)

- Building a Chat bot using **Microsoft Azure, LUIS** and C#. Results are fetched from the database using SQL server and is displayed in the chat window.
- Gathering knowledge and use case requirement from client for different kinds of deals available, and implementing them in the chat bot application.
- Also designed a Rest API using Asp.Net MVC framework which would convert **text to speech** and vice versa.

Technologies: Azure chat bot, Luis, C#, SQL Server, Asp.Net MVC

Project Title: Predicting which people would donate for Charity based on their annual salary. (**Aug 2018 - Oct 2018**)

- Designed a model to classify and predict the type of people who are willing to donate for charity by applying Statistics and **supervised learning** algorithms. There were 63 columns and many of them were categorical. One hot encoding was performed on them. **Cross validation, Grid search** concepts were also implemented for model accuracy.
- Gathering data from different sources, data blending, data cleansing, visualizing and data modelling.
- Data was extracted querying SQL Server using SSIS and then processed in Jupyter notebook.

Technologies: Python, Pandas, ScikitLearn, Matplotlib, Seaborn, Jupyter Notebook, SQL Server.

Project Title: Developed an email classification model. (**Mar 2018 - June 2018**)

- Developed a model to classify spam and non-spam emails using Natural Language Processing concepts.
- Applied Text Analytics using the python libraries **NLTK** in cleaning the Text from Punctuations, Special Symbols and converted the text data into numeric format using TF-IDF
- Applied Classifier algorithms on the pre-processed data to classify as spam or non-spam.

Technologies: Python, Pandas, ScikitLearn, NLTK, Matplotlib, Seaborn, Jupyter notebook.

Project Title: Data Migration (**Oct 2017 – Feb 2018**)

- We have removed database custom tables of [CLICK](#) DB and data from these tables are modeled into JSON.

Technologies: Oracle DB, C#, JSON, SQL SERVER

Project Title: Crew Timesheet (**Mar 2017- Sept 2017**)

- Developed a Web application for the Client which allows their field technicians (workers) to submit their work and shift details into the system. Using this they can able to form a crew depending upon the availability of technicians. The crew lead is having access to view and submit other team members' timesheet. ..

Technologies: C#, ASP.Net MVC, Enterprise Library, Entity Framework, JQuery, Kendo UI, SQL Server 2012/2014, TFS.

Project Title: Web service (**Nov 2016- Feb 2017**)

- Developed on WCF service which interacts with [CLICK](#) Database and return the required information to the consuming application.

Technologies: WCF, C#, SQL SERVER