

Krishnendu Dey

Associate Data Scientist
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Career Objective:

Hi, Myself Krishnendu, currently working as a Data Scientist at PwC India have an overall professional experience of 1.8 years. I look forward to learn new technologies and solve good Data Science problem statements which can create impact and bring value to the business.

Experience Summary:

PwC, India (Associate)

Jan13,2022-Present

Project 1 (Jan,2022-April,2022):

Technology: Python, EDA, Clustering, Recommendation System

Client: A large scale Indian electronic appliances company

Work Summary:

- Worked on creating consumer clusters from the sales data of the past 6 months to identify the classes of customers that the business owns (Algorithm used : Kmeans cluster + Dimensionality Reduction)
- Built a recommendation system from the product sales data on the dealer level to approach each dealer with better recommendations of products to increase revenue. (Algorithm used : User based collaborative filtering + Neural Network method using Keras)

Project 2 (April,2022- Present):

Technology: C3.ai, Python, Anomaly Detection, Predictive Maintenance

Client: A Dutch fortune 500 oil company

Work Summary:

- Initially worked on a POC to detect data-drift using PSI method and later implemented the code change for the same to create a new feature in the existing enterprise AI C3 application to detect data drift.
- Improved the alert suppression mechanism to reduce the count of nuisance alerts predicted by the models
- Got accustomed to the C3.ai architecture and got the understanding of the entire codebase, MLOPS, data source & methodologies used to get the backend understanding of the application to detect equipment health.

Tata Consultancy Services (Assistant System Engineer)

Sept14,2020-Jan6,2022

Project (Sept14,2020-Jan6,2022):

Technology: SAP BASIS+Oracle Database

Client: An American aerospace supply chain company

Work Summary:

- Perform daily monitoring of the SAP system SIDs
- Upgrade SAP components and changing the configuration as per requirement
- Scheduling background job for the customer and moving Transport Requests.
- Performing online table reorg/ index rebuild on the oracle database tables
- Diagnostic Agent installation in Windows and Linux hosts
- Kernel upgrade in both Windows and Linux servers.
- Patching SAP Oracle Database and configuring Oracle Enterprise Manager

Education Summary:

Degree	Academic Institution	Year of Passing	% / CGPA
B.Tech (EE)	Kalyani Government Engineering College	2019	8.08
Higher Secondary	Burdwan Municipal High School	2015	88.00 %
Secondary	Burdwan Municipal High School	2013	91.57 %

Technical Skill Set:

- Python (Numpy, Pandas, Matplotlib, Seaborn)
- SQL, MongoDB
- Exploratory Data Analysis
- Machine Learning using Scikit Learn, Deep Learning using Tensorflow (Keras)

Personal Projects:

1. Loan Prediction:

Problem Statement

From the existing data of the customers, create an application to figure out the probabilities of a customer to get a loan (Data Source: Kaggle)

Technology used: Python, Flask, HTML, CSS and Heroku

Algorithm Used: Random Forest Classifier

Outcomes:

- Taking all the important feature like credit score, applicant's income, loan amount, marital status, education etc into consideration, the ML model gave an overall accuracy score of 0.84 and f1_score of 0.89.
- An application was developed and deployed in the Heroku platform to predict the probability of a customer to get the loan.

2. COVID-19 Detection using X-ray images:

Problem Statement

From the chest X-ray images of normal patients and that of the Covid positive patients, create a model to identify if a person has covid or not by fitting the model to the unseen data (Data Source: Kaggle)

Technology used: Python, Pandas, Keras

Algorithm used: Deep Learning – CNN

Outcomes:

- Combining the normal and Covid positive X-ray images we had approximately 1500 images, after augmentation those images were used to train the model
- After 20 epochs, the model consisted with 10 layers was able to achieve a validation f1_score of 0.975 and accuracy value of 0.969.

Certifications and Achievements:

- Completed C3.ai Data Science and Data Integration certification with technical evaluation.
- Azure Data Fundamentals (DP-900) Certified
- Deep Learning Specialization by deeplearning.ai (Coursera)
- 5 Star Gold badge for Python awarded by Hackerrank
- 5 Star Gold badge for SQL awarded by Hackerrank
- MongoDB certified for Basic competency
- Certified by TCS as SAP Basis Advanced Associate through assessment.

Languages Known:

- English
- Bengali
- Hindi

Hobby:

- Painting
- Playing FIFA

Other Achievements:

- Co-ordinated Chitrang, official art club of KGECE in annual techno-cultural fest Espektro, 2019
- Secured 2nd Position at T-shirt painting competition in Espektro, 2018