

Basudeb Mitra

Data Engineer

To learn, grow and explore my capabilities and skills while competing towards the completion of both short and long term goals.



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Asansol, West Bengal

TECHNICAL (IT) SKILLS

Azure Cloud IoT

Flask-framework

Python

Nodejs

Express-framework

SQL Server

Pyspark

Server(Linux
CentOS/RHEL8)

Data Structures

Java 8 (Core)

R (basics)

LANGUAGES

English

Full Professional Proficiency

Bengali

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency

INTERESTS

Coding

Badminton

Swimming

Drama

WORK EXPERIENCE

Systems Engineer

Tata Consultancy Services

11/2018 - Present

Kolkata, India

Achievements/Tasks

- Currently lead a team of 3 backend developers: **Improved delivery time** by ~25% by setting up weekly reviews
- Developed automated code using **Nodejs** and **Azure management API** that would check for the downtime of servers and automatically restart them if needed
- Developed **Pyspark** job so as to keep a track of the health of the **Databricks** cluster, so that jobs running on the cluster do not get stalled
- Came up with a code review process using **JIRA** and **Bitbucket**, so as to make sure reviewed bug free code gets merged in the main branch of the repository
- Developed an application using **Python** that would send data from the config file of a Raspberry Pi to the **Azure IoT Hub**, also designed to upload files in the network directory of the Raspberry Pi to the IoT Hub

PERSONAL PROJECTS

Final year project on Bitcoin trading strategy simulation (2017 - 2018)

- Data visualization was done on a one-minute interval data-set of five years of Bitcoin transactions where we had to crunch the data in the raw dataset, structure the data, and apply various data visualization techniques.
- Tools used:** RStudio(R), MS Excel

Industrial project on Spam classifier using Naïve-Bayes algorithm (2016)

- The objective of the project was to build a classifier that would classify messages as spam or not-spam for which I employed "bag of word" model.
- Tools used:** Spyder(Python)

EDUCATION

B. Tech

Institute of Engineering & Management

07/2014 - 07/2018

CGPA: 8.88

ISC

St. Patrick's Higher Secondary School

2012 - 2014

93%

ICSE

St. Vincent's High & Technical School

2012

92.7%

CERTIFICATES

"Introduction to Programming using Python" by Microsoft (2019)

NPTEL certification - "Introduction to Machine Learning" from IIT KHARAGPUR (2017)

NPTEL certification - "Introduction to Modern Application Development" IIT MADRAS (2017)

NPTEL certification course "Introduction to Cryptology" from IIT ROORKEE (2016)

ACHIEVEMENTS

Best Team awarded by business (2021)

Appreciated by business for implementing crucial deliverables in a stipulated short time-frame

Recognized as a Microsoft Technology Associate (2019)

Introduction to Programming 2019 using Python with 95% marks in the certification exam

Co-author of IEEE research paper (2015)

Titled as "Identification of relevant physico-chemical properties of amino acids with respect to protein glycosylation prediction."