

Avishek Das

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With a keen interest in Artificial Intelligence and Deep Learning, looking forward to contribute to the development of innovative solutions in the IT industry. Committed to leveraging technology to improve efficiency and deliver exceptional results.

PROFESSIONAL EXPERIENCE

- Tata Consultancy Services** Kolkata, India
 - System Engineer** Aug 2022 - Currently Working
 - Developer @ DTS (Digital Transformation Services)
 - Working on the development of an automatic sandbox for processing unorganized data and uploading to SQL server using Python.
 - Worked on text analyzing and summarizing of financial reports using Named Entity Recognition and Natural Language Processing.
 - Worked on Natural Language Processing for HSE sector to predict upcoming incidents based on historical data. Performed topic modeling on free text data to identify different causes of incidents. Used sentence-transformer to obtain similarities between many incidents and predicted upcoming incidents. Developed front and back-end of web app using Flask framework to use those models and statistics coming out from the historical data to inform users beforehand about any predicted incident.

EDUCATION

- Indian Institute of Engineering Science and Technology, Shibpur** Howrah, Westbengal
 - Bachelor of Technology In Civil Engineering ; CGPA: 9.15/10.0** 2018 - 2022
 - Key Courses Taken: Engineering Mathematics, Uncertainty Quantification, Structural, and Geotechnical Engineering
- Sonamukhi Bindu Basani Jubilee High School** Sonamukhi, Westbengal
 - Class 12th (Higher Secondary); WBCHSE; Percentage: 89% 2017 - 2018
- Sonamukhi Bindu Basani Jubilee High School** Sonamukhi, Westbengal
 - Class 10th (Secondary Examination); WBBSE; Percentage: 84.14% 2015 - 2016

INTERNSHIP

- Indian Institute of Engineering Science and Technology, Shibpur** Howrah, Westbengal
 - Summer Research Intern** May 2020 - July 2020
 - Worked on vehicle detection and tracking using YOLO pre-trained model to extract traffic-related data and movement curve of traffic on some given road.

PROJECTS

- Scraping StackOverFlow using Python** Jan 2023 - Jan 2023
 - Scraping question, answers and related tags from Stackoverflow.**
 - Developed a class called Scrape in Python which can scrape questions, answers, and tags given some options and save them into one text file.
 - These data can be used in any NLP problem statement to built chatbots or similar problems.
- Automation in Structural Engineering** Jun 2022 - Dec 2022
 - Prediction of the structural behaviour of residential concrete building in Indian conditions.**
 - Developed a deep learning-based regression model inspired by wave-net to predict the response of buildings due to wind and gravity load.
 - Developed model to predict optimum structural section sizes for a given condition using the KNN-Regression technique with 99.5% success rate of being the optimum section.

SKILLS SUMMARY

- Programming Languages:** Python, Java
- Frameworks/ Libraries:** tensorflow, nltk, spacy, scikit-learn, numpy, pandas, pyspark, scipy, matplotlib, plotly, seaborn, flask
- Tools:** Dataiku (Core Designer Certified), Advanced Microsoft Excel, Microsoft Word, PowerPoint

POSITIONS OF RESPONSIBILITY

- **Manager In-Charge, BEing Civil** January 2020 - May 2022
 - ***IIST, Shibpur***
 - BEing Civil is a website designed to simplify the lives of engineering students. It serves as a repository for various engineering-related materials. As part of my role in the organization, I manage the website, manage the team, and keep the website updated.
 - **Link to the website.**

AWARDS

- **National Award Competition (Civil) - INSDAG** 2021
 - ***Institute for Steel Development & Growth***
 - Designed “Iconic Steel Roof Structure over An Open-Air Theatre and Stage”.
 - Part of a team of 4.
 - **Position Awarded: First place at the National Level.**
- **Bentley Future Infrastructure Star Challenge** 2021
 - ***Bentley Systems***
 - Innovative Idea Presentation - Energy extraction from the turbulence of wind due to high-speed vehicle
 - Part of a team of 2.
 - **Position Awarded: Selected in top 20 teams all over the world.**
- **Build O’ Innovate (Smart Traffic)** 2021
 - ***Indian Institute of Technology, Patna***
 - Development of an automatic flow meter to measure traffic parameters using YOLO pre-trained models.
 - Part of a team of 3
 - **Position Awarded: Second place at the National Level.**

COURSES/CERTIFICATIONS

- **Dataiku - Core Designer.**
- **Natural Language Processing with Python.**
- **Neural Networks and Deep Learning.**
- **Improving Deep Neural Networks: Hyper-parameter Tuning, Regularization and Optimization.**
- **Data Structures & Algorithms - Java.**