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SHUBHAJIT DAS

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EMPLOYMENT

Software Engineer	Tata Consultancy Services	Jan 2020-Present
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File Storage, Client - IBM Cloud

- Automated **99%** of the complex File Storage test cases using python which were previously done manually, resulted in reducing 250hrs/week of efforts.
- Designed a script to identify missing test case scenarios of a module which resulted in enhanced productivity of the team and better-adjusted story completion (**3x** more completed tasks in a Sprint).
- Optimizing the clean-up script of an internal test engine by **150%** resulted in the efficient availability of resources in a zone.

Software Developer Intern	Aryabhatta Robotics Pvt. Ltd.	June 2019-Aug 2019
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Vision Team

- Optimized the existing real-time Object Detection engine to perform **37x faster**(0.38fps to 14fps) on the edge devices which helped in a 22% increase of the revenue.
- Improved the Age-gender prediction engine accuracy and reduced the **latency time to as low as 0.1ms** as well.

Software Developer Intern	Azuik Technologies Pvt. Ltd.	Oct 2018-Dec 2018
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App Team

- Build a Computer Vision based software from scratch for both mobile and web platforms, which enabled it in getting 2 initial stage investors.
- Optimized the query engine to serve results **125% faster** using the pagination technique and Redis database.

EDUCATION

Odisha, India	Government College of Engineering Keonjhar	Aug 2015-May 2019
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- B.Tech. in Computer Science and Engineering. CGPA: **8.58** / 10.0
- Was the **top 2** students of the college and among the **top 1%** students of the university in CSE 2015-19 batch.
- Main coursework: Data Structures and Algorithms, Database Systems, Operating Systems, Software Engineering

PROJECTS

URL Shortener:

- Made a fully functional custom URL Shortener Service like bit.ly, which has the capability to shorten any valid long URL and display the shortened [6 digit hash value] URL to the user.
- It can successfully redirect users to the original URL whenever a request is made with a valid shortened URL.
- Users can use custom names for the shortened URL, support for user management [work under progress].

Crop Disease Detector:

- Trained and deployed Resnet50 model on PlantVillage dataset (containing 38 classes) using 1-cycle-Policy with pytorch which gave an accuracy of 99.7% and capable of identifying the disease in the crop infected leaves accurately.

LANGUAGES AND TECHNOLOGIES

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- Python; Django; C++; Java
 - MySQL; PostgreSQL
 - Git; Github; Postman, AWS
 - Software Development; Agile; Deep Learning
 - Problem Solving; Data Structures; Algorithms