SHUBHAM

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github.com/porcelainruler

NLP | Deep Learning | MERN Developer

KEY SKILLS

JAVA
● ● ● ● ● ○

Python
● ● ● ● ● ○

Deep Learning (NLP)
● ● ● ● ○ ○

TensorFlow
● ● ● ○ ○ ○

React
● ● ● ● ○ ○

NodeJS
● ● ● ● ● ○

ACHIEVEMENTS

JEE MAINS / 2017
Achieved 1027 rank among 12lac+ candidates

JEE ADVANCED / 2017
Achieved 2282 rank among 2lac+ candidates

DTU IEEE Bits – Code Shrink
Achieved 1st rank in Coding competition in DTU Tech Fest.

COURSES

MOOCS

{Front-End Web Development with React | Server-side Development with NodeJS, Express and MongoDB} – Coursera, {CRUX - JAVA} – Coding Blocks

University Courses

Computer Networking, Operating System, Artificial Intelligence, Design & Analysis of Algorithm, Data Structures, Computer Graphics

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER INTERN
SAMSUNG R&D INSTITUTE INDIA - BANGALORE / May – July {2020}

- Analyzed various architectures for Grammar Error Correction Task and implemented CNN Sequence to Sequence Model from scratch to increase performance over current model.
- Studied and explored various error categories for Grammar Correction and compared with various Web Tools to assign importance to various error categories.
- Analyzed GECToR model for Grammar Correction task and implemented its data pre-processing part. Further extended tags for GECToR model which leads to a considerable decrease in model size and complexity of learning for model which further increased model accuracy.

WEB DEVELOPER
College Space / Dwarka, Delhi / 2018 - Present

College Society is responsible for providing the latest information, notices, and results to college students through its website.

- Made various of React components for CollegeSpaceV5 like Campus, Societies, Fests, and Faculties.
- Created Questions for various of Events organized by the society as well as proctored them.

EDUCATION

Serial No.	Institution	Course	Performance
1	Netaji Subhas Institute of Technology	B.E. Computer Engineering	8.29 (Till 5th Sem)
2	D. A. V. Public School, Rohini Sec.-7, Delhi	High School (12th Grade)	92.4%

Project Title	Details and KPIs

Language Translation	<u>**Details**</u>:
	• Various NMT architectures for Machine Translation Task are applied for Multilingual translation task for best performance.
	• Currently, GCNN (Gated Convolution Neutral Network) model is applied and trained for:
	    ○ Germen to English Translation {BLEU Score – 32.4}
	        • Dataset – TorchText multi30k Dataset
	    ○ English to Hindi {Performance Not Calculated Yet}
	        • Dataset – Multi-Indic Language Corpus
	• Currently Both models are separately trained for better accuracy purpose.
	
	<u>**Future Works:**</u>
	• Train a single model for all 7 Indic language with Zero Shot approach.
	• Try BERT model for this task.
	• Make a Web-Tool for Language Translation by integrating it with a React App.
	
	<u>**Link**</u> - https://github.com/porcelainruler/Language-Translation

Driver Drowsiness Detection	<u>**Details:**</u> An Open-CV based python application which indicates whether the Driver is sleepy or not with various levels of Alerts. It currently takes into account three features, namely (a) Eye Aspect Ratio, (b) Yawn and (c) Neck Bend Ratio to detect the level of drowsiness of the Driver and in case of sleep triggers the Alarm. Further details can be found in Readme of the Repository Link below: Link - https://github.com/porcelainruler/Driver-Drowsiness-Detection
Resume Shortlister	<u>**Details:**</u> Resume Shortlister is an NLP based AI application used to screen resumes and then use Heuristic to calculate score for each candidate based on skills he may possess and the required skills for the job. In this we have used python library Spacy for parsing and extracting skills of a candidate. <u>**Link**</u> - https://github.com/porcelainruler/Resume_Shortlister_AI-NLP
Restaurant Management System	<u>**Details:**</u> A Restaurant Management System Web App made with NodeJS, MongoDB(NoSQL) , and Edge templating Engine with authorization for various users and employees with specific allotted roles such as adding a dish to cart for a customer or checking his/her cart or adding a dish for an employee. <u>**Link**</u> - https://github.com/porcelainruler/Restaurant-Management-System