KSHITIJ PATHANIA

Member of Technical Staff

kshitijpathania@gmail.com | 09354164254 | Roorkee, India

Kshitij Pathania

SKILLS

C++ | Java | ML | Nodejs | Reactjs | DevOps | SpringBoot | Docker | Kubernetes

INTERESTS

AI | NLP | CV | System Design

LANGUAGES

Lang 1: Hindi

Lang 2: English

AWARDS

Jee Advanced Rank: 3519

Summer Undergraduate Research Award: 2017

Inspire Scholarship Holder: 2015-2020

REFERENCES

Ref 1

R. Balasubramanian
Professor
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IIT ROORKEE
09068680077

Ref 2

Dr. Sanjeev Malik
Associate Professor
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ABOUT ME

Experienced Software Development Engineer with skills in Algorithms Implementation, Web development, Application development, Machine learning, and Deep learning. Strong engineering professional with a degree in Integrated MS in Applied Mathematics from Indian Institute of Technology, Roorkee.

EXPERIENCE

Member of Technical Staff-2 | Adobe

01 2022 – Current | Noida, India

- Designed and developed a content management system to cater linguistic and functional testing activities in Adobe
- Implemented deployment pipelines to ensure services are reliably deployed on K8 clusters

Member of Technical Staff | Adobe

07 2020 – 12 2021 | Noida, India

- Developed a web application used by Adobe Localization Team for workflow orchestration of localisation tasks.
- Contributed in the development of various APIs and microservices for leveraging products testing in Adobe
- Implemented and integrated an NLP transformer-based solution to solve line break issue in the thai language

Research Intern | Adobe

05 2019 – 07 2019 | Bangalore, India

- Built a data-driven attribution model for B2B market transactions.
- Explored literature based on various types of LSTMs, survival theory and deep-learning for designing the architecture of the attribution model.

Google Summer of Code 2018 | Libreoffice

05 2018 – 08 2018 | Global Event

- Selected for Google Summer of Code 2018 in the organization LibreOffice as a student developer.
- The work focused on making the notebook bar UI bugs free and solving the issues related to resizing, theming, and other issues with widgets.

EDUCATION

Computer Science | Georgia Institute of Technology

01 2023 – Current | Atlanta, US

- Ongoing Masters in Computer Science

Applied Mathematics | Indian Institute of Technology Roorkee

07 2015 – 05 2020 | Roorkee, India

- Integrated Masters in Applied Mathematics, CGPA: 8.23

- Associate Coordinator, Training and Placement Office (IIT Roorkee)
- Coordinator, Ravindra Bhawan Sports Meet
- Member, National Sports Organisation (NSO)

PROJECTS

Word spotting in Handwritten Documents | Project

05 2017 – 08 2017 IIT Roorkee, India

- This Project was done under the valuable guidance of Prof. Partha Pratim Roy.
- Implemented Phoc(Pyramidal histogram of characters) in a region-based convolution network for segmentation free word spotting
- Achieved map of 91.6 in query be example word spotting

Market Analysis of Bitcoins in India | Project

08 2017 – 11 2017 IIT Roorkee, India

- This project was done under the valuable guidance of Prof. J.K Nayak
- Analysed and interpreted the sampled data using IBM SPSS Statistics and Percentage analysis.
- Concluded multiple hypothesis related to bitcoins in India using ANOVA, Chi-Square and other methodologies needed for hypothesis testing.

Machine Translation and Zero-shot Sentiment Analysis in Sanskrit | Dissertation

01 2020 – 05 2020 IIT Roorkee, India

- Implemented various seq2seq architectures to achieve translation from Sanskrit to English
- A GAN-based strategy is designed to evaluate the quality of translations
- Used various state-of-the-art sentimental analysis models like bert to obtain sentiment scores of Sanskrit text
- Achieved accuracy of 80.67 by using attention-based LSTM

PUBLICATIONS

Zero-shot learning based cross-lingual sentiment analysis for Sanskrit text with insufficient labeled data | Journal

2022 Applied Intelligence (APIN)

- Novel methodology for analyzing the sentiments portrayed by Sanskrit text has been proposed
- This research was supported by Ministry of Human Resource Development (MHRD) India
- A dataset of Sanskrit and English translation along with their marked sentiment scores has been constructed
- The paper got accepted in Springer Applied Intelligence (APIN) Journal: https://link.springer.com/article/10.1007/s10489-022-04046-6