

Kunal Dudhavat

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EXPERIENCE

SOCIETE GENERALE GSC | SOFTWARE ENGINEER

Sep 2021 - Present | Bangalore, KA

- Contributed to the development and maintenance of the credit approval platform as part of the MyCredit team for the Investment Banking Division at Societe Generale.
- Delivered key business requirements using frontend and backend technologies to enhance user experience and system functionality.
- Designed and developed RESTful APIs using Springboot and Kotlin.
- Used Angular and Bootstrap-4 to create responsive and user-friendly frontend interfaces for the web applications.
- Developed email notification feature using RabbitMQ to inform platform users about important updates.
- Built a dashboard using Kibana to track important business metrics.
- Developed search functionality for users using Elasticsearch, allowing easy access to information within the platform.

ADITYA BIRLA GROUP - DATA & ANALYTICS | DATA SCIENCE INTERN

July 2020 – Dec 2020 | Bangalore, KA

- Performed exploratory data analysis on large datasets which facilitated auto identification of themes from the data, allowing for quick identification of patterns and trends and generating valuable insights for the business.
- Developed a competitive intelligence model that identified competitors of the health insurance business using Named Entity Recognition, helping the business understand its competitive landscape and make informed decisions.
- Improved market sentiment prediction from social media data for price forecasting by 10% using BERT transformer model, increasing the directional accuracy of the predictions.

CARRARO INDIA PVT LTD. | RESEARCH INTERN

May 2019 – July 2019 | Pune, MH

- Designed a mistake proofing system using PFMEA analysis and implemented corresponding poka-yoke.

PROJECTS

IMAGE CAPTIONING SYSTEM | TERM PROJECT FOR COURSE NEURAL NETWORKS AND FUZZY LOGIC

Nov 2019 - Dec 2019

- Designed a system that automatically generated image descriptions.
- The system generated then state-of-the-art performance on the official Microsoft COCO benchmark, producing a BLEU-4 score of 29.1%.

WAKE WORD DETECTOR | NATURAL LANGUAGE PROCESSING

Apr 2020 - May 2020

- Achieved a test accuracy of 94% using a model which used a network that took spectrogram input and output a signal when it detected a wake word.
- Implemented the deep learning network using GRU layers.

EDUCATION

BITS PILANI

B.E. (HONS) ELECTRONICS AND INSTRUMENTATION

Aug 2017 - Jul 2021

CGPA : 7.77 / 10

SKILLS

PROGRAMMING

- Kotlin • Springboot • Java • Angular
- React • Javascript • C/C++
- Python3 • PostgreSQL
- MySQL • MongoDB

TOOLS/TECHNOLOGIES

- Full Stack development
- Machine Learning • Deep Learning
- Natural Language Processing
- ELK stack • Git

COURSEWORK

UNDERGRADUATE

- Data Structures and Algorithms
- Object Oriented Programming
- Operating Systems
- Discrete Structures For Computer Science
- Neural Networks and Fuzzy Logic
- Foundations of Data Science

POSITIONS OF

RESPONSIBILITY

INSTRUMENTATION FORUM

PROJECT COORDINATOR

May 2019 - May 2020

Led a team of 20 members to successfully complete multiple high-impact projects in the domains of Artificial Intelligence and Electronics.

EEE DEPARTMENT, BITS PILANI

TEACHING ASSISTANT FOR THE COURSE MICROELECTRONIC CIRCUITS

Jan 2020 - May 2020

Assisted in the conduction of demo sessions and practical evaluation components for analog circuit simulation in LTSpice for a class of 220 students.