

KUNAL DUDHAVAT

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EDUCATION

Master of Science in Computer Science

Rutgers, The State University of New Jersey

Jan 2024 - Dec 2025

New Brunswick, United States

Bachelor of Engineering in Electronics and Instrumentation

Birla Institute of Technology & Science, Pilani

Aug 2017 - Jun 2021

Pilani, India

WORK EXPERIENCE

Societe Generale Global Solution Center

Software Engineer

Sep 2021 - Jan 2023

Bangalore, Karnataka

- Contributed to the development and maintenance of the credit approval platform as part of the MyCredit team for the Investment Banking Division.
- 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.
- Developed an email generation and dispatch system, ensuring timely and personalized delivery of notifications based on user preferences using RabbitMQ.
- Enhanced search functionality using Elasticsearch, allowing easy access to information within the platform.

Aditya Birla Group - Data and Analytics

Data Science Intern

Jul 2020 - Dec 2020

Bangalore, Karnataka

- Worked as part of the Products team to extract valuable business insights from unstructured data sources.
- Developed a competitive intelligence model that identified competitors of the health insurance business using spaCy Named Entity Recognition and fuzzy matching.
- Enhanced the directional accuracy of the predictions by 15% for an oil price forecasting model using BERT transformer model on social media data.
- Implemented a Latent Dirichlet Allocation (LDA) model for efficient extraction of primary and secondary themes from the data, allowing for quick identification of patterns and trends and generating valuable insights for the business.

PROJECTS

Image Captioning System

Nov 2019 - Dec 2019

- Produced then state-of-the-art performance on the official Microsoft COCO benchmark with a BLEU-4 score of 29.1%.

Wake Word Detector

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.

Multiplayer Bingo game

May 2020 - Jun 2020

- Developed a dynamic multiplayer bingo game that supports one moderator and multiple players using OOP principles and design patterns, enabling efficient code organization and enhancing extensibility.

TECHNICAL SKILLS

Java, Kotlin, Spring Boot, Python, Django, Angular, React, PostgreSQL, MongoDB, ELK stack, Linux, Shell Scripting, Azure, Airflow, Git, Docker, Jenkins, Apache Spark, Hadoop, Test-driven Development (TDD)

Positions of Responsibility

Project Coordinator, Instrumentation Forum - BITS Pilani

May 2019 - May 2020

- Led a team of 20 members to complete multiple high-impact projects in the domains of Electronics and AI.
- Organized multiple events like Analog Design Challenge, Hackatronics, and Circuit Design Challenge for the technical fest APOGEE.

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.

ACHIEVEMENTS

- **Star of the Quarter:** Received recognition for exceptional performance within the department for the quarter 2 in 2022, highlighting a strong commitment to excellence and a having significant impact on team success.