Ansuman Sasmal

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EDUCATION

Syracuse University, School of Engineering and Computer Science (Syracuse, NY, USA) *August 2021 – May 2023*
Master of Science in Computer Science

Kalinga Institute of Industrial Technology (Bhubaneswar, India) *June 2014 – May 2018*
Bachelor of Engineering in Computer Science & Engineering

TECHNICAL SKILLS

Programming tools: Python, Java, C#, HTML, JavaScript, Node.js, Angular.js, Typescript, Vue.js, R, Apache Hadoop, Kafka, Tomcat
Cloud Services: AWS (SageMaker, S3, EMR, Redshift, Lambda, EC2), Docker, Git, Jenkins, GitHub, Azure, GCP, Heroku
Databases and MQ: SQL (MySQL, Postgres), NoSQL (MongoDB, Redis), ActiveMQ, Oracle
Framework: Spring, Spring boot, Spring Core, Spring Security, ASP.NET MVC, FastAPI, Flask, Consul, JUnit, Mockito, JBoss

PROFESSIONAL EXPERIENCE

Research Assistant, SU - Martin J. Whitman School of Management (Syracuse, New York) *November 2022 – June 2023*

- Implemented data cleaning techniques and ETL processes, reducing Twitter dataset noise by 15% for improved sentiment analysis.
- Developed a high-performing sentiment analysis model (Bert-Base-Uncased-Go-Emotion) with 96.14% accuracy on 10,000 labeled tweets. Outperformed traditional ML by 10% in capturing nuanced purchasing sentiments.
- Designed an efficient Apache Kafka pipeline for live tweet ingestion, processing, and real-time sentiment analysis. Achieved sub-500ms latency, enabling swift response to emerging trends.

Software Engineer Intern, Our Ability, Inc (Albany, New York) *May 2022 – November 2022*

- Developed REST APIs using ASP.NET to automate form field population, reducing completion time by 80%. Implemented an accessible user interface (UI) adhering to WCAG guidelines, resulting in a notable 20% increase in user engagement.
- Deployed Named Entity Recognition (NER) model within a chatbot using ASP.NET. The NER model effectively identifies user intents, optimizing response time and contributing to a remarkable 40% increase in overall usage.

Software Engineer, Zycus Infotech PVT LTD (Bengaluru, India) *June 2018 – June 2021*

- Collaborated with a team of 8 to construct an invoice categorization system using in-house OCR technology, achieving 96% data extraction accuracy**.**
- Developed cross-product integration API using Redis cache management to reduce system latency by 40% and boost scalability for 20+ enterprise clients.
- Built fraud detection tool using Random Forest algorithm with 95% prediction accuracy as part of a team of 7, reducing fraudulent activities in the system.
- Utilized Spring Framework to decompose a monolithic application into microservices, resulting in a 52% performance improvement and enhanced processing of supplier data.

Academic Projects

Job Notification System: *May 2023 – June 2023*

- Developed a scalable distributed backend using Spring Boot for a Job Notification system. Implemented efficient REST API endpoints to retrieve job links from the company's career page, enhancing performance and responsiveness. Utilized MongoDB for optimized data retrieval.
- Implemented Tesseract OCR (Optical Character Recognition) to extract relevant data from resumes. Enabled skillset matching with job descriptions, generating personalized job recommendations based on applicant qualifications. Leveraged Spring and Apache Kafka for seamless job alerts and notifications.

Text Summarizer: *May 2023 – June 2023*

- Developed and deployed an end-to-end NLP project, including data processing, modeling, and prediction pipeline.
- Implemented CI/CD deployment of a text summarization tool using Google Pegasus-XSUM on Amazon EC2, leveraging GitHub Actions.

Resume Parser: *April 2023 – May 2023*

- Developed Flask application for resume parsing and information extraction, Used NLP techniques to categorize the information.
- Integrated LinkedIn official APIs into the application, enabling seamless retrieval of job details for skill and job comparison. Hosted application on GitHub using Heroku for public access.

LUIS chatbot for job search: *May 2022 – August 2022*

- Integrated Azure Cognitive Services' Language Understanding (LUIS) into the chatbot for improved comprehension and extraction of job-related details from user queries.
- Incorporated job search APIs within the chatbot using ASP.NET, displaying relevant job postings based on user preferences, ensuring a seamless job search experience.