

Pranay Sood

📍 Montreal, Quebec, Canada ✉ pranaysood1@gmail.com ☎ 514-575-2459 🌐 in/pranaysood

SUMMARY

Dedicated Graduate Research Student with 2 years of experience in NLP, machine learning, and data analysis. Developed anomaly detection systems for cloud services, utilizing state-of-the-art Root Cause Analysis algorithms and enhancing data processing efficiency with Pandas and NLTK. Proficient in leveraging and benchmarking large language models, including LLAMA 2 and Genstruct, to improve predictive accuracy.

EXPERIENCE

Graduate Research Student

Concordia University

January 2024 – June 2024, Montreal, Quebec, Canada

- Conducted comprehensive data analysis for a year-long research project, leading to the publication of findings in a journal, and an increase in departmental research funding by 15%.
- Engaged in the development of an anomaly detection system for cloud services using Python, incorporating NLP and machine learning to facilitate real-time performance analysis.
- Conducted comprehensive research on Large language models, utilizing analysis software and successfully presenting findings at three international conferences, contributing to a 20% increase in departmental research accuracy.

Software Engineer

DXC Technology

June 2020 – March 2022, Hyderabad, Telangana, India

- Assisted in the deployment of enterprise-level applications, which improved system efficiency by 25% and reduced bug incidents by 15%.
- Enhanced incident resolution times by systematically diagnosing underlying system errors using automated diagnostics tools.
- Implemented solutions to production issues through the application of technical expertise and analytical skills.
- Conducted comprehensive root cause investigation on production incidents utilizing data analysis tools.
- Engineered a scalable API infrastructure that improved system efficiency by 30%, utilizing Python and Django, and reduced downtime by implementing robust error-handling mechanisms.

EDUCATION

Master of Engineering – MEng, Electrical and Electronics Engineering

Concordia University • Montreal • August 2024

Bachelor of Technology – B.E, Electrical, Electronics and Communications Engineering

Sathyabama University • 2020

COURSEWORK

Multi-tier Web Application Deployment

Concordia University • 2024 • Teamwork

- Developed and maintained user data management systems using MySQL, ReactJS, and NodeJS, ensuring robust front-end and back-end integration.
- Orchestrated full deployment on AWS, utilizing EC2, S3, RDS, and Lambda for scalable and efficient cloud deployment.
- Implemented CI/CD pipelines with Jenkins and GitHub Actions, and managed scalable Docker containers for front and backend services.
- Configured and deployed applications using Kubernetes, and Terraform, and monitored system performance via Prometheus, Grafana, and AWS CloudWatch.

Software Engineering

Concordia University • 2024 • Full Stack

- Implemented OAuth protocol allowing users to log in easily using Gmail or Facebook accounts.
- Developed a robust messaging feature enabling users to communicate and share thoughts on trending news seamlessly.
- Utilized an interactive questionnaire model to tailor news recommendations based on user preferences, enhancing the overall news consumption experience.
- Enabled users to search for others with similar interests, connect based on location, and send friend requests, promoting virtual connections and social engagement within the platform.

SKILLS

Tools & Technologies: Databases (MySQL, DynamoDB), Jira, Git, Microsoft Office, Office 365, HTML5, CSS, Flask, Windows Server, Linux, Python, SQL, Microsoft Azure.

Industry Knowledge: Root Cause Analysis, Large Language Models (LLM), Data Analysis, Natural Language Processing (NLP), IBM FileNet, Dynatrace, Cloud Migration.