SMRITI KOTIYAL

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Education

University of Washington | Seattle, USA SEP 2024 – SEP 2025

Masters in Information Management, with Specialization in Data Science

University of Bradford | Bradford, UK

Masters in Big Data Science and Technology (Hons)

Graphic Era University | Dehradun, India JUL 2012 - JUL 2016

Bachelor of Technology in Computer Science (Hons)

GPA - 9.0/10

SEP 2019 - SEP 2020

86%

Technical Skills

Programming and Web skills : Python, HTML, JavaScript, Python Flask, Web Scraping
Database : Knowledge Graph (SPARQL – Graph DB), MS SQL/ MySQL

Software/ Services/ ML Tools : GATE for NLP, Protégé, Jupyter notebook, Google Colab, GPT3 API

integration

Cloud : AWS (EC2), Ansible, GCP (BigQuery)

Business Process Tools and IDE : GitHub, ServiceNow, Jira, Visual Studio Code,

Operating System : Mac OS, Windows, Ubuntu

Work Experience

University of Washington | Seattle, USA | *On-Campus* Student Scribe – UW Disability Resources for Students

SEPT 2024 – Present

- Support students enhancing accessibility and learning through effective notetaking during lectures and exams
- Courses covered: Research Methods, Design Methods

Scholarly Communications and Data Services Specialist – UW Libraries

Support researchers in open access, data management, and curation

OCT 2024 - Present

University of Bradford | AYJ Solicitors | London, UK Research Assistant Artificial Intelligence (AI) Engineer – KTP Associate

APR 2021 – APR 2023

- Engineered Conversational Agent (CA) for UK immigration law from 0 to 1, leveraging GPT-3 API integration, and fine-tuning
- Crafted a bespoke Knowledge graph (KG) for UK immigration law with 700+ graph nodes and 1000+ clauses from immigration archives
- Built occupational codes' classification tool using Random Forest and Naïve Bayes reducing human efforts by 93%
- Developed Python-based Decision Support System (DSS) for visa application preparation reducing customer cost by 100%
- Showcased paper titled "Knowledge Graph based Intelligent Conversational Agent for UK Immigration Case Work" in Greece.

University of Bradford | Bradford, UK

Research Assistant JUL 2016 – AUG 2019

- Developed real-time dashboard to efficiently retrieve and visualize IoT-generated Air Quality data from 20+ city locations
- Constructed Visual Analytics Solution for co-design, using BIHR's Public Health data for 50,000 patients with 100+ unique diseases
- Designed a GCP BigQuery data pipeline to enhance code consistency and link local coding platforms with GitHub for better traceability
- Utilized UpSet, Parallel plot, MetroSet and RadSet visualization techniques to understand cohort intersection with focus on Type 2 diabetes

Infosys Pvt Ltd | Hyderabad, India | Melbourne, Australia

Systems Engineer

JUL 2016 – AUG 2019

- Ensured precise data loading to the DSS through streamlined ETL process using Microsoft SSIS, handling 7 data dumps of 12-14 GB daily
- Collaboratively supported and maintained a 14-year-old workforce management production application within a 60+ members team
- Remediated 150+ issues in UNIX and SQL jobs and executed complex deployments for the successful migration of WFM to AWS
- Implemented real-time DSS monitoring using C#, reducing manual effort by 95% with efficient data tracking and failure alarms

Academic Projects

Efficient Visualization and Predictions for Space Weather Applications | MSc Dissertation

JUN 2020 - SEP 2020

- Built a Solar flares prediction system with LSTM Recurrent Neural networks, elevating classical prediction systems to an accuracy of ~78%
- Conducted time-series analysis of real-time Solar data of 20 years (1981 to 2002) collected by geostationary satellite and stored by NGDC
- Improved the dataset quality by 30.95% by crafting a novel dataset by rigorously curating multiple Solar spots and flares datasets
- Developed a visual tool for novel, automated and improved solar dataset retrieval using Python Tkinter