Manoj Kumar Kolli

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EDUCATION

UNIVERSITY OF NORTH TEXAS   JANUARY 2023 – MAY 2024
Master Of Science, Data Science   **Denton, Texas, United States**
Course Work: Python, Statistics, Google Cloud Platform (GCP), NLP, ML, DL, SQL, Big data analytics

SRKR ENGINEERING COLLEGE   AUGUST 2017 – AUGUST 2021
Bachelor of Technology, Computer Science   **Bhimavaram, Andhra Pradesh, India**
Course Work: Python, C, DBMS, Cloud Computing, Data Science, Data Structures, Algorithms, Data Engineering, Compiler Design

TECHNICAL SKILLS

- **Programming Languages**: Python, Scala, R, C, C++
- **Databases:** SQL, PostgreSQL, MongoDB, DynamoDB, Redshift
- **Developer Tools & OS:** Git, Jira, Confluence, GitHub, Bitbucket, GitLab, Docker, Postman, Power BI, Linux, Tableau, Rapid Miner, SAS Enterprise Miner
- **Cloud:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Databricks
- **Frameworks/ Libraries:** Spark, Django, Flask, HTML/CSS, TensorFlow, PyTorch, ML, DL

EXPERIENCE

SOFTWARE ENGINEER | CONSTELLA INTELLIGENCE | HYDERABAD, TELANGANA, INDIA   AUGUST 2021 – DECEMBER 2022
- **Accelerated** system responsiveness and **boosted** security incident management by **automating breach responses, doubling system responsiveness** by spearheading the Rawdata API 2.0 project using AWS Lambda, ECS, and Redshift
- **Implemented a byte-offset method in S3**, reducing search response times from 20 seconds to under two seconds, markedly improving user experience
- **Maximized response efficiency by 60% while cutting costs by 45%** by fine-tuning AWS OpenSearch data queries, improving operational speed and scalability
- **Streamlined API performance by 50%**, by developing the Connector Service Wrapper (CSW), a unified API interface utilizing efficient AWS Lambda and Django integration
- **Architected a robust ML framework leveraging Python, scikit-learn, and TensorFlow;** improved classification accuracy of leaked emails to 85% and malicious content detection to 95%, bolstering the company's cybersecurity defenses

SUBJECT MATTER EXPERT FREELANCER | CHEGG INDIA | REMOTE   MARCH 2022 – JULY 2022
- **Secured a 95%+ satisfaction rating**, by providing expert Computer Science tutoring at Chegg India, aiding students in mastering concepts from data structures to algorithms, SQL, and Math concepts

SOFTWARE ENGINEER INTERN | CONSTELLA INTELLIGENCE | HYDERABAD, TELANGANA, INDIA   MARCH 2021 – JULY 2021
- **Revitalized workflow management and boosted system performance by 20%**, by initiating and leading the migration from Apache Airflow to AWS Step Functions
- **Expedited operations for processing breach data**, by engineering an automated system integrating AWS Textract for OCR and AWS EMR for preprocessing
- **Boosted data transfer efficiency to Redshift by 30% and enhanced data processing by 25%** by optimizing ETL jobs with Spark SQL and RDD, enabling rapid data ingestion
- **Unified diverse APIs using Django Rest Framework on AWS EC2**, optimizing service rate limiting and increasing internal resource distribution efficiency by 25% across 4 teams

SOFTWARE ENGINEER INTERN | SMART BRIDGE | VIZAG, ANDHRA PRADESH, INDIA   JANUARY 2019 – JULY 2019
- **Enhanced seamless data transfer efficiency** by optimizing data transmission protocols between 10 IoT devices and the IBM Cloud, utilizing Python-based solutions
- **Developed impactful projects** including a Smart Health Monitoring System Using Arduino and an Alcohol Detector (Hackathon), leveraging Arduino and Raspberry Pi technology alongside Python programming
- **Facilitated technical solutions** within tight deadlines through active engagement in team brainstorming sessions, code reviews, and troubleshooting efforts

PROJECTS

DYNAMIC WEB APPLICATION PORTFOLIO   MARCH 2024 – MAY 2024
- **Led the development** of a sophisticated web application using the Django framework, showcasing advanced full-stack development skills and innovative deployment techniques

LLM ARTICLE NAVIGATOR: SUMMARIES & Q/A   FEBRUARY 2024 – MAY 2024
- **Developed an LLM-driven API using OpenAI** to enhance news summary and query interaction, integrating pandas and text preprocessing for data accuracy. Achieved a model accuracy of 96.3%, refining summary precision
- **Employed FAISS and advanced NLP** techniques to optimize document retrieval processes, boosting user experience by improving interaction response accuracy

CONTENT STRATEGY ADVISOR VIA SENTIMENT ANALYSIS   SEPTEMBER 2023 – FEBRUARY 2024
- **Formulated a high-accuracy (98.47%)** real-time sentiment analysis ML model using Django and Streamlit; provided actionable insights and strategic content recommendations from YouTube comments, refining video content strategy
- **Designed and integrated a visualization dashboard in Streamlit**, allowing content creators to dynamically interact with sentiment data and trends, thus enhancing informed decision-making