NISTHA KUMAR

San Jose, California | +1(831)295-7710 | nisthakumar29@gmail.com | linkedin.com/in/nisthak/

EDUCATION

Master of Science in Computer Science	University of California, Santa Cruz	Sep 2022 - Jun 2024
PG Diploma in Data Science	IIIT, Bangalore, India	Mar 2020 - Apr 2021
Bachelor of Engineering in Computer Science	Visvesvaraya Technological University, Bangalore,India	Sep 2012 - Jun 2016

TECHNICAL SKILLS

Proficient In: Python, SQL, Power BI, R, Tableau, Grafana, Data Warehousing, EC2, Redshift, S3, Machine Learning, Computer Vision, Deep Learning, Azure, Github, Jupyter, CI/CD, ETL, Data Analysis, Statistics

Also Skilled In: NoSQL, Java, SpringBoot, Microservices, REST, Distributed Systems, System Design, Low Level Design, Multithreading and Concurrency, Kafka, Docker, Kubernetes, Problem Solving, Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Gravity iLabs - Bengaluru, India

Data Scientist   Feb 2021 - July 2022

- Designed and Developed robust and scalable ETL data warehouse with a throughput of 2000 RPS achieved via AWS S3 and Redshift..
- Increased end-users operational efficiency by 70% implementing a centralized dataset which powers over 50 insightful dashboards using Power BI.
- Deployed stored procedures on Azure reducing data processing time by 45% within the data lake.
- Developed a multi-tenancy model, reducing TAT for client onboarding by 80%.
- Developed a KNN model to predict project completion status with 92% accuracy based on project objectives, risks, benefits, and budget, empowering business leaders to gauge project complexities and optimize for timely completion.

Nokia - Bengaluru, India

Data Scientist   Jan 2019 – Feb 2021

- Designed and developed a 5G and Small Cells S-Curve dashboard using REST APIs to enable global tracking of development and testing progress across multiple teams. This resulted in an increase in efficiency in decision-making for business leaders.
- Engineered an advanced JIRA dashboard, utilizing the JIRA API to provide comprehensive project management insights, streamline task management across sprints, resulting in a 30% increase in task efficiency.
- Automated dataset preparation using Python, Postgres, and ETL processes with scheduled cron jobs, resulting in a 90% reduction in manual effort and saving 15+ hours per week.

Software Engineer   Jun 2016 – Dec 2018

- Developed an automation suite using RIDE, causing a 40% reduction in testing time and leading to 100% test coverage.
- Conducted High Availability testing, injecting service failures and assessing system behavior to ensure robustness and fault tolerance thereby reducing downtime by 40%.
- Executed 100+ test scenarios, resulting in an improved software quality and a 15% reduction in customer issues.

PROJECTS

XAI Autograder *(Python, Artificial Intelligence)*   Jan 2024 - Present

- Developed a framework to generate LLM prompts for offering in-depth explanations of errors in students' Pacman game implementations which enhanced learning outcomes.

An analysis of PUBG gameplay statistics *(Python, R, Statistics)*   Nov 2023 - Dec 2023

- Designed and Developed an analytics tool to read network data from Kafka topics and identify the anomalies in the network. Integrated Grafana with Postgres to show the insights visually which helped track the network performance.

Eye for the Blind *(Python, Deep Learning)*   Feb 2021 - Mar 2021

- Designed a CNNRNN based attention model to generate descriptive image captions, empowering visually impaired individuals to comprehend images; achieved accessibility and inclusiveness for 1000+ users.