KUMAR S

DATA SCIENTIST

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SUMMARY

Innovative and results-driven Data Analyst with expertise in big data analytics, data engineering, and statistical modeling. Skilled in analyzing player behavior, developing predictive models, and creating interactive dashboards to drive data-driven decisions. Passionate about mobile gaming and leveraging data to enhance user experiences, with a track record of delivering impactful insights and scalable solutions.

PROFESSIONAL EXPERIENCE

Consultant - Deloitte Consulting   **Aug 2020 - Jul 2023**

- **Led application modernization initiatives** using React.JS/TS and Java Spring Boot, designing and implementing **high-performance RESTful APIs** that supported 500,000 concurrent users. These efforts **prevented revenue losses exceeding $200 million** and enabled seamless data interaction for high-traffic applications.
- **Developed and deployed scalable microservices in Python**, showcasing expertise in **OOP concepts** and leveraging packages such as **Nltk, PyMongo, NumPy, Pandas, SciPy, Matplotlib, Seaborn, TensorFlow, BeautifulSoup**, resulting in a **30% improvement in performance**.
- **Designed and implemented automated data workflows and analytics pipelines** using Python, Docker containers, and Azure Cloud, leveraging tools like **Argo Workflows, RabbitMQ, and SQLAlchemy**. These solutions **extracted and transformed data** from MSSQL databases into interactive **Power BI dashboards**, improving **data accessibility and decision-making by 40%** while reducing system downtime by 25% and enhancing operational reliability.
- Developed **Power BI dashboards and presented data-driven insights** to senior management, transforming raw business data into actionable recommendations. These efforts **accelerated decision-making by 20%** and **boosted operational efficiency by 15%** through the adoption of optimized system revisions and processes.
- **Awarded 'Excellence' and 'Applause' Awards** for leading cross-functional teams to **deliver strategic projects 10% ahead of schedule**, surpassing technical and client expectations.

Data Science Intern - Intentico.ai (Movius Corp)   **Jan 2020 - Jul 2020**

- Systematically **evaluated the performance of predictive models** using precision, recall, and F1-score metrics to align with strategic goals, enhancing stakeholder satisfaction and project deliverables.
- **Engineered advanced AI-driven customer service chatbots** using **NLP** and **Machine Learning** techniques for clients like Clovia and SAP Ariba, directly contributing to securing new contracts worth $500,000.
- Collaborated with the Principal Data Scientist to **develop and refine several key Proof of Concepts** for an in-house AI platform, enhancing product capabilities and market readiness.
- **Optimized data workflows** by implementing automated collection and preprocessing techniques using Python and SQL, **reducing processing time by 40%** and increasing data accuracy for analytics use.

ACADEMIC PROJECTS

- **Real Madrid vs Barcelona Analysis Dashboard** - Utilized statistical analysis and visualized results using D3.js and R Shiny programming, showcasing skills in data-driven decision making and analytics.
- **Loan Default Prediction System** – Developed a Loan default prediction system by using Apache **PySpark** and **Haddop** for **Big Data Analysis** using and **Apache Kafka** for Real Time Data Streaming.
- **2D Map Generating Autonomous Rover -** Built a Rover using SLAM LIDAR technology to create a 2-D Map of the surrounding environment. Website hosted on Heroku using ReactJs to display maps. Map stitching and rover controls built on RaspberryPi using Python.
- **Football Analytics and Predictions Website** – Built a website using React TypeScript and Python Flask. Analytic and Prediction models a built in Python (Random Forest Model) with hyper tuning.

EDUCATION

Master of Science in Data Science

Monash University   **Present**

Studied: Big Data Analytics, Data Visualization, Statistical Modelling, IT Research Methods, Machine Learning, Advanced Data Analytics

Bachelor of Engineering, Information Science

CMR Institute of Technology   **Jul, 2020**

Studied: Machine Learning, Cloud Computing, Python Programming, Database Management Systems, Data Structures and Algorithms

SKILLS

- **Programming:** Python, R Programming, Java, JavaScript, React JS/TS, SQL, MongoDB
- **Data Science:** Machine Learning, Statistical Modeling, **AI Data Annotation, Predictive Analytics**, **Data Visualization (Power BI, Tableau, R Shiny, D3.js, Seaborn)**
- **Cloud Engineering:** GCP, Docker, Kubernetes, Azure, Argo Workflows.
- **Big Data:** PySpark, Hadoop, Hive, Kafka
- **General:** Analytical mindset, Problem-Solving, Critical Thinking, Effective Communication, Team Player, Persistence.

CERTIFICATIONS

- **Google Advanced Data Analytics Professional Certification**.
- **Explorative Data Analysis** for **Machine Learning** from **IBM**.
- **Data Science Certification** from **IBM Cognitive Class**.
- **Machine Learning Certification** from **Stanford University**.
- **Internet of Things Certification** from **Bolt IoT**.

ACHIEVEMENTS

- **Co-Founder of The Lazy Editor**, an initiative that combines technology with editorial expertise to enhance content quality and accessibility.
- **Published:** "Big Data Analysis in the Finance Sector" (IJARESM).
- **Published:** "Smart Street Lamps using Piezoelectric and Thermoelectric Energy Harvesting" (Scopus Index International Journal)
- Built a course suggestion chatbot for students from underdeveloped communities.
- Division Level and State Level Football (Soccer) player.