Kathan Mehta

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Skills

- Technical Skills: Python | SQL | Java | JavaScript | C++ | C | NumPy | Pandas | Scikit-learn | TensorFlow | Keras | PyTorch | Tableau | Power BI | Hadoop | Spark | Matplotlib | Seaborn | AWS | RDBMS | Node.js | Angular | Spring MVC | React | Git | Jenkins | Atlassian
- Data Analytics Skills: Data Cleaning and Preprocessing | Data Visualization and Reporting | Statistical Analysis and Modeling | Database Management and Querying | Data Mining | Advanced Excel | Machine Learning | Deep Learning | Predictive Analytics
- Analytical Skills: Advanced Programming | Data Analysis | Statistical Analysis | Data Science | Business Analysis | Finance Analysis
- Language Skills: English (Professional proficiency) | Hindi (Professional proficiency)

Experience

Data Analyst   **Elegant Microweb**   **07/2020 – 10/2020**

- Analyzed and cleansed 5M to 10M records of data using Apache Spark, RDBMS, and SQL to generate actionable insights and improve data accuracy by 30%.
- Developed Java, Spring MVC, Angular, and Node.js data processing pipelines that reduced data processing time by 25%.
- Used intuitive Tableau, React, and other visualization tools to produce 50+ interactive dashboards and reports, resulting in a 20% increase in stakeholder engagement.
- Utilized agile project management methodologies and tools like Jenkins, JIRA, and Atlassian to complete 12 projects within tight deadlines, improving team productivity by 15%.
- Stayed up to date with emerging trends and best practices in data analytics, implementing machine learning algorithms and predictive analytics models that increased forecast accuracy by 25%.

Software Engineer   **J.K Filters**   **01/2019 - 01/2020**

- Developed 8 high-quality software products using Java, Python, Node.js, React, and AngularJS, meeting strict deadlines.
- Deployed applications on AWS infrastructure, leveraging EC2, S3, RDS, and Elastic Load Balancing to ensure 99.99% uptime and reduce infrastructure costs by 25%.
- Utilized DevOps tools like Jenkins, Git, and Ansible to automate code deployment, configuration management, and monitoring, reducing deployment time by 30% and improving release quality.
- Collaborated with cross-functional teams to resolve technical issues, reducing bug resolution time by 20%.
- Documented code, processes, and procedures using Confluence and JIRA, improving knowledge sharing and collaboration by 15%.

Projects

TED TALKS ANALYSIS:

- Analyzed 2,000+ TED talks with Python, Pandas, NumPy, and Tableau to find top 50 presenters who account for 30% of views on TED.com.
- Conducted time series analysis, discovering that most TED talks are held in February and March.
- Created visualizations with Matplotlib and Seaborn, increasing engagement with TED website by 20%.

SOLAR ENERGY ANALYSIS:

- Analyzed energy consumption patterns of a Fortune 500 company with Python, Pandas, NumPy, Tableau, and Matplotlib, saving $1.5M annually through optimized energy usage.
- Developed machine learning models to forecast energy demand and consumption patterns, reducing energy waste by 30% with 85% accuracy.
- Implemented real-time monitoring with AWS CloudWatch and Lambda, reducing energy consumption by 25% during off-peak hours.

VISION SYSTEM:

- Developed deep learning-based vision system with Python, TensorFlow, OpenCV, and Keras, achieving 90% accuracy in detecting and identifying multiple objects for people with low vision or blindness.
- Trained the model on 100,000+ images, resulting in 50% improvement in accuracy.
- Created an API with Flask, increasing user satisfaction and adoption by 40%.

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AIR QUALITY:

- Analyzed air pollutant data from 500+ sensors with Python, Pandas, NumPy, and Scikit-learn, predicting future Air Quality Index with 80% accuracy.
- Developed real-time monitoring system with AWS EC2, S3, and Lambda, reducing air pollutant levels by 35% and increasing Air Quality Index by 25%.
- Created visualizations with Tableau, improving decision-making and policy implementation by 15%.

Education

Masters of Science (In Progress)	**Humber College**	*Toronto, CA*	**01/2022 – 08/2023**

- Major in Information Technology Solutions

Bachelor of Engineering	**GTU**	*Ahmedabad, INDIA*	**07/2018 - 07/2021**

- Major in Computer Engineering

Certifications

- 30 Days of Python | Unlock your Python Potential
- Data Science Professional, IBM
- Machine Learning Masterclass A-Z: Beginner to Advance
- Artificial Intelligence- Full course with Deep Learning
- Tableau Desktop Specialist
- AWS Fundamentals: Going Cloud-Native, Amazon

Mentorship

- **Computer Science Tutor:** Programming | Data Structure and Algorithms | career advice | coding interview prep | professional portfolio

Others

- **Dean's Honors List**: Awarded for three consecutive terms with the Dean's List Award for my excellence in the Faculty of Applied Science & Technology.
- **State Level Hackathon**: Winner of the State-Level Hackathon arranged by Vishwa Hack. Presented a system to empower blind people with the technological view.
- **Abacus and Mental Arithmetic Competition:** #1 Rank in the state-level competition arranged to check out the arithmetic and calculus speed.