Shreya Goyal

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With over 3 years of hands-on experience in data analytics and software development, I am a dedicated problem solver. My genuine enthusiasm lies in discovering patterns within data and building applications that help solve complex business problems.

WORK EXPERIENCE

Accenture, Seattle, WA, US | Jul 2023 – Aug 2023

AI Research Intern – **Accenture Labs -** Developed a Machine Learning application predicting Cancer cell presence based on the gene patterns.

- Applied Isolation Forest, Clustering, and Principal Component Analysis on comprehensive gene dataset with 85% accuracy.
- Integrated R prototypes with UI dashboards for visualization.
- Provided valuable insights on hyperdimensional computing for anomaly detection in genes.

Cognizant Technology Solutions, Pune, India | Jun 2019 – Aug 2022

Full Stack Developer- **Google Inc** - Ticket Automation - Built an automated tool for a manual ticketing system.

- Achieved over 80% code coverage using Typescript, Angular, gRPC, and Protocol Buffers.
- Directed deployment processes, ensuring seamless operations for the ticketing system.

Programmer Analyst- **Financial Conduct Authority (UK)** - Website development - Redeveloped the website for the UK government to support research of vendors and strategic partnerships.

- Worked in a 12-member Agile team to revamp a regulatory data collection web platform.
- Engineered 6 Rest Microservices with Spring Boot, serving 15,000+ users across multiple regions.
- Optimized backend APIs, reducing data validation time by 80% using REST protocol.
- Built dynamic data enabled reports using Tibco Jaspersoft for analysis.

Indian Space Research Organization (ISRO), Dehradun, India | May 2018 – Jul 2018

Research Intern- Conducted analysis of images from the satellite in optical remote sensing, transitioning from multispectral to hyperspectral sensors for detailed Earth surface data comprehension.

- Employed Hyperspectral Aviris data with Spectral Angle Mapper, Mixture Tuned Matched Filtering, and Linear Spectral Unmixing techniques to classify land features and determine water turbidity accurately.
- Developed a MATLAB-based sensor-independent HRS data simulation tool, enabling controlled experimentation and enhancing hyperspectral remote sensing analysis.
- Built the final analysis report for future endeavors representing data visualizations and data trends.

EDUCATION

Master of Science in Data Analytics with concentration in Applied Machine Intelligence | CGPA: 4.0 | Sep 2022 -Mar 2024
Northeastern University, Seattle, WA, US
Relevant Courses: Fundamentals and Applications of Artificial Intelligence, Data Mining, Big Data and Data Management, Database Management Systems, Data visualization and Communication, Probability and Statistics

Bachelor of Technology in Electronics and Communication Engineering | Jul 2015 - May 2019
Jaypee Institute of Information Technology, Noida, India
Relevant Courses: Data Structures and Algorithms, Fundamentals of Software Development engineering, Probability theory and statistics

PROJECT

Skillzguide – Capstone Project – Conducted real-time data analysis by extracting, loading and transforming data to understand correlations between job openings and skill popularity.

- Used Machine Learning models like linear regression, logistic regression to create analytical models and analyze the relationship between job requirements and skillset of users and make accurate recommendations.

SKILLS

Programming languages: Python, SQL, R, Java, HTML/CSS, JavaScript
Databases: MySQL, MongoDB, SQLite
Technologies and tools: AWS S3, Angular, React, Agile Methodologies, Tableau, Power BI, RShiny, Excel, Word, PowerPoint, MATLAB, GCP

PUBLICATIONS

Research paper: **'IoT-Based Smart Energy Management System'** at ICCCA 2018, **DOI**: 10.1109/CCAA.2018.8777547, Published in Institute of Electrical and Electronics Engineers (**IEEE**),2018, **Link**- https://ieeexplore.ieee.org/document/8777547