Abrar Syed

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EDUCATION

Master of Science, Computer Science **Expected : June 2024**
University of California, Davis, CA | ***CGPA: 3.75/4.0***
Relevant Coursework: Design and Analysis of Algorithms, Machine Learning (ML), Big Data, Software Engineering

Bachelor of Technology, Computer Science **July 2018 - May 2022**
SRM University-AP, Andhra Pradesh, India | ***CGPA: 9.03/10***
*Relevant Coursework: Data Structures and Algorithms (**C++**), Object Oriented Programming (**Java**), Probability and Statistics*

Visiting Student (Semester Abroad Program) **Jan 2020 - May 2020**
University of California, Berkeley, CA | ***CGPA: 3.80/4.00***
Relevant Coursework/Skills: Applied Data Science with Venture Applications (Data-X), Database Management Systems (DBMS), Disruptive Technology and Social Impact Challenge Lab, Entrepreneurship

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript, Solidity
Frameworks: Flask, React.js, Node.js, Next.js, Semantic UI
Developer Tools: Git, Github, Docker, VS Code, AWS
Libraries: NumPy, Pandas, Matplotlib, scikit-learn, PyTorch, Seaborn

PROJECTS

github.com/abrar-syed

Travel4All

- Collaborated as a key team member within a cross-functional team of 5 to successfully develop a route recommendation system for budget-conscious travelers, applying a data-driven approach to streamline travel choices, enhance user convenience, and reduce costs.
- Leveraged **Amadeus and Google Maps APIs** to extract flight data from over 400+ airlines and driving routes respectively, allowing for the calculation of comprehensive trip costs with an accuracy rate of 95% or higher.
- Contributed to the design and development of the full-stack web application using **Flask**, **HTML**, **CSS** and **JavaScript** enabling users to input travel preferences, budget constraints, and trip logistics, resulting in a cost-effective travel recommendation system with interactive map displays for enhanced user experience.

Environmental Justice Mapping

- Developed **Flask**-based web application that maps and analyzes data on California's Cap and Trade program and GGRF funding, emphasizing environmental justice impacts over 8057 census tracts and 58 counties.
- Utilized **Docker** containers and **MariaDB** for efficient deployment and management, reducing application response time by 40% and enhancing application performance.
- Applied advanced techniques, such as normalization by using **SQL** queries, to analyze an extensive dataset with 8000+ records resulting in a 25% improvement in data retrieval efficiency.

CrowdCoin

- Implemented an innovative blockchain-based solution that addresses the limitations of traditional crowdfunding platforms by establishing a direct peer-to-peer connection between project creators and backers aiming to enhance user experience and potentially increase campaign success rates.
- Contributed to the development and deployment of **Ethereum** smart contracts using **Solidity** and **Node.js** on the back-end, ensuring transparency and reliability in financial transactions.
- Leveraged **MetaMask**, **React**, **Semantic UI**, and **Next.js** to create a user-friendly front-end interface, with the goal of optimizing user engagement and facilitating seamless interactions.

Other Projects: Large Language Models (LLM) as Polling Participants in Qualitative Research, Predicting Next Day rain in Australia using ML techniques, Intrusion Detection using ML techniques

CERTIFICATIONS

- AWS Knowledge: Cloud Essentials Issued by Amazon Web Services (AWS) Training and Certification (2024)
- IBM Blockchain Essentials V2 Issued by IBM (2020)

HACKATHONS & CONFERENCES

- Attended **SF DeveloperWeek Hackathon** with over 2000+ attendees. Built **FUSION**, which automated DSLR camera tasks using Canon PowerShot camera with **Canon Camera Control API**. (2020)
- Attended **Google Developer Group(GDG) DevFest** with over 1000+ attendees organized by GDG Hyderabad. (2019)