UTKARSH SHARMA

Shiv Nadar University ◇ Greater Noida, India

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EDUCATION

Shiv Nadar University, Greater Noida, India   **July 2017 - July 2021**
Bachelor of Technology, Computer Science and Engineering   **CGPA: 8.12/10**
Selected Coursework:-
Machine Learning Through R, Data Structures and Algorithms, Probability and Statistics, Research Methods in Computing.

INDUSTRY EXPERIENCE

Dell technologies   August 2021 - Present
Software Engineer-1
  - Responsible for developing REST APIs for internal applications using nodejs and python.
  - Increased the CI/CD maturity score of enterprise applications by 32% as a member of the DevOps engineering team. Made the applications secure and stable and improved the end-user experience of more than 16000 global employees.
  - Created a recommendation tool that extracts the data from resumes and uses natural language processing to recommend a suitable candidate for the job from a pool of more than 200 candidates.
  - Involved in stretch projects as a part TECH CSR, which uses machine learning and computer vision to create in-house products to help underrepresented communities.

RSA Security   March 2021 - June 2021
Undergraduate Software Development Intern
  - Worked as a developer to create SAML 2.0 authentication integrations with 16 different SaaS providers. Developed the integrations that support Single Sign-On (SSO), RADIUS, and Relying Party protocols using RSA cloud authentication.

Dell Technologies   May 2020 - July 2020
Undergraduate Software Development Intern
  - Created customized Workday integrations for cloud-based enterprise applications to manage and analyze HR and Finance data for APAC (Asia-Pacific) employees.
  - Worked as a full stack developer to create cross-platform applications that leveraged computer vision to assist visually impaired employees.

AmarUjala Web Services   May 2019 - July 2019
Machine Learning Intern
  - Implemented sentiment analysis, intent analysis, Subject Verb Object (SVO) detection, and auto keyword tagging to create a personalized news feed for more than 8000 users on Amarujala.com

RESEARCH EXPERIENCE

The Role of ESG in Sustainable Development: An Analysis through the Lens of Machine Learning. *Utkarsh Sharma, Akshat Gupta, Sandeep Kumar Gupta*
Accepted *in 2021 IEEE International Humanitarian Technology Conference*   [Paper Link]

  - Developed a novel dataset housing ESG parameters for conducting regression analysis of more than 1400 plus corporations listed in the stock exchanges throughout the world.
  - Presented a framework for region agnostic evaluation of ESG data supported by regression models. Built a random forest regressor to accurately predict the growth variables such as "profit margin" and "return on equity" and increased the adjusted R square by 5%.

PROJECTS

Blind Navigation Support System [GitHub] [Certificate]   May 2020 - July 2020
- Created an application using React Native to help visually impaired employees. The application was internally deployed in the production environment to 4 different physical sites of Dell Technologies.
- Leveraged computer vision to gather and process floor and infrastructure data and created a speech-enabled navigation system using Accelerometer, Gyroscope, Proximity, and Magnetic field sensors of the mobile device.

Services and Products Recommendation System [GitHub]   November 2019 - December 2019
- Created a web application using Flask(Python framework) powered by machine learning that used web activity data to recommend products and services.
- The machine learning model used Random Forest Classifiers to provide recommendations and used user feedback to improve them. The recommendation system supported 300 products and 20 different services.

Public Tweets Sentiment Analyzer [GitHub]   September 2019 - October 2019
- Created a web application to analyze and classify the pubic tweets into three different sentiments.
- Users could see the statistical breakdown of the sentiments for 5000 recent tweets by providing the hashtag in the search field.

TECHNICAL STRENGTHS

Programming Languages:	C, C++, Python, Java, JavaScript, R, SQL
Technologies:	React, React Native, Angular, Flask, Latex, Github, Gitlab, Docker
Libraries:	Tensorflow, Pytorch, Keras, NLTK, OpenCV, Pandas, Numpy

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- Dean's list Awardee for academic excellence (top 10% of School of Engineering).
- Awarded 80% tuition fee waiver at the time of admission to the undergraduate institute (Shiv Nadar University).
- Winner of the IDEAforce Hackathon conducted by Dell Technologies.
- Volunteer for Feeding India (A non-profit organization with the aim to reduce hunger in India and provide food for underprivileged communities.)
- Completed a summer certificate program in Advanced Data Structures and Algorithms in Java. [Certificate]
- Online Certification: 'Machine Learning A-Z™: Hands-On Python & R In Data Science.' [Certificate]