

SHIVANSH VERMA

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Experience

Deloitte USI *Advisory Analyst*

January 2021 – Present

- Designed and integrated Single-Sign-On capabilities for clients having 100+ active applications.
- Helped clients understand modern identity and access management practices and implement them.
- Initially started off as an intern campus hire and was offered a fulltime role after completion of the internship.

Phamoss In. *Software Development Engineer*

September 2020 – January 2021

- Developed the entirety of the backend with a small team of 3 for a nascent startup.
- Integrated modern NodeJs frameworks such as ExpressJs and Sequelize to production level code and ensure optimum performance. Worked on MERN Stack (*MySQL, ExpressJs, ReactJs, NodeJs*)
- Integrated CD/CI capabilities in Amazon Web Services (AWS).

Reliance Industries *Machine Learning Intern*

May 2019 – June 2019

- Developed Deep Learning models that identified CAPTCHAs and broke them using Transfer learning and leveraged image processing frameworks such as OpenCV. Leveraged pre-trained neural networks for several object detection projects.
 - Analyzed and cleaned several datasets to be used for training purposes for deep learning projects.
 - Helped deploy several machine learning models into cloud frameworks like Docker and Kubernetes.
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Academic Projects

Automatic Keyword Extraction *Machine learning and NLP*

- Developed an NLP based automatic keyword extractor on Python using neural networks that outputs best keywords that represent the article by using PowerRank algorithm and is used for better Search Engine Optimization(SEO).
- Leveraged the Word2Vec and NLTK frameworks to train the dataset of 50,000 level 5 vital Wikipedia articles.
- Utilized word embeddings in Word2Vec which understands the context of words rather than frequency.

Ground Water Evaluator *Neural Networks and LSTMs*

- Implemented a ground water evaluator that used historic monsoon and ground water data to predict future trends.
- Leveraged the capabilities of Recurrent Neural Networks and LSTMs to understand the trends and seasonality of data.
- Extended the project in Smart India Hackathon 2019 and qualified for national finals.

Person and Dress Color Identification *Deep Learning and Image Processing*

- Designed an object-detection model to identify a person and their dress color using TensorFlow and OpenCV.
- Used YOLO object-detection model to a person and color recognition using K-Nearest Neighbors algorithm.
- Aids Law enforcement to identify a Person of Interest faster in crowded area and use facial recognition to confirm.

New(S)tand *Android App*

- Designed and deployed an integrated Newsstand app that aggregated all the user's reading materials using Firebase.
 - Utilized public open source APIs to get all the reading material and audio books of a user and consolidate in one place.
 - Incorporated Text to Speech for users who enjoy Audible like content instead of reading.
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Academic Profile

Vellore Institute of Technology, Chennai Campus

July 2017 to May 2021

B. Tech, Computer Science and Engineering

CGPA : 8.61 (Out of 10 in Relative grading)

Technical Skills

Languages & Frameworks : C++, C++ STL , Python, Java, Maven, Android Studio, SQL, Javascript, NodeJs, ExpressJs, Sequelize, Spring Boot, TensorFlow, Numpy, Matplotlib, R, Scikit-learn, REST

Big Data Frameworks : Apache Spark, Apache Hadoop, Spark SQL.

Tools : Visual Studio Code, PyCharm, IntelliJ, CLion, Git, Jira, Confluence, Microsoft office suite, Adobe Photoshop, Adobe Illustrator

Web Technologies : CSS, HTML, Javascript, NodeJs, ExpressJs, Angular , MEAN Stack

Certifications

- Distributed Computing using SPARK
 - Machine Learning by Stanford university
 - DeepLearning.AI TensorFlow and NLP Developer (*Specialization*)
 - Introduction to ML,AI and Deep Learning in TensorFlow (*Specialization*)
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Achievements

- Gave the winning business presentation in Enduro Student India (February 2020)
- Headed the college design team for Technical fest 'Qubit' – 2019
- Qualified for Smart India Hackathon Finals – 2019
- Co-headed the design team for Cultural fest 'Vibrance ' - 2018