Simran Anand

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Computer Science Engineer, with deep technical expertise and hands on projects experience in Data Science, Computer Programming, Artificial Intelligence and Data Analytics. Aspires to leverage knowledge with problem solving skills to drive positive outcomes and analytical decisions.

EDUCATION

- **Vellore Institute of Technology** — Andhra Pradesh, India
  Bachelor of Technology- Computer Science Engineering with Data Analytics; **July 2019 - June 2023**

  CGPA: 9.41/10 (Nominated as the Program Representative of the batch for academic excellence and securing highest CGPA)

- **Indus Universal School** — Hyderabad, India
  CBSE Class 12th Marks: 94/100 **June 2017 - June 2019**

- **Indus Universal School** — Hyderabad, India
  CBSE Class 10th CGPA: 10/10 **June 2007 - June 2017**

  Photo published in 'The Times of India' for scoring the highest CGPA among CBSE Board toppers in school

SKILLS SUMMARY

- **Technical Skills**: Java, Python, SQL, R, Programming, MySQL, Data Structures and Algorithms, Software Development Life Cycle (SDLC), Machine Learning and Deep Learning (ML Algorithms, Neural Networks, NLP, Scikit-Learn, OpenCV), Web Technologies (HTML, CSS, PHP, Java Script, Flask, FAST API), MLOps, Model Deployments, Data Analytics, App Development (mobile apps using Flutter, Desktop apps using Swings and NetBeans IDE), MS Office (MS PowerPoint, MS Excel, MS Word), Docker, Microsoft Azure, DevOps, Git, GitHub, CLI and Linux

- **People Skills and Soft Skills**: Leadership, Public Speaking, Excellent Communication Skills, Project Management, Verbal and Written Communication, Event Management, Team building, Interpersonal Skills, Analytical Skills, Psychology, Problem Solving, Business domain knowledge, Management

WORK EXPERIENCE AND RESPONSIBILITIES

- **Senior Software Engineer**: Bosch Global Software Technologies (Working on Artificial Intelligence and Data Science projects leveraging tools, frameworks and techniques encompassing Natural Language Processing, Computer Vision, Machine Learning, Deep Learning and Multimodel Neural Networks. Successfully delivered Proof Of Concepts, end to pipelines and collaboratively solved business use cases.) August 2023 - Present

- **Data Science Intern - MLOps Developer**: Discite Analytics AI LLP (Worked on both international and domestic client projects in Natural Language Processing, Machine Learning and Prompt Engineering. Contributed in developing and implementing effective solutions to solve complex business problems with end to end projects.) October 2022 - May 2023

- **Data Science Educator**: ProjectPro (I created technical content for the company's YouTube channel and website. Wrote high quality technical blog articles of over 2500+ words for the company's website with effective Search Engine Optimization tools to enhance readers's engagement.) September 2022 - Present

- **Data Science and Business Analytics Intern**: The Sparks Foundation (Leveraged Machine Learning algorithms to perform predictive analysis on real time datasets. Analyzed the data pertinent tasks and projects using Business Intelligence tools like Tableau, Power BI and MS Excel. Applied ML algorithms and Computer Vision in Python to solve the problem statements. Visualized the data using Tableau and R. **Github:** https://github.com/SimranAnand1/The-Sparks-Foundation) September 2020 - December 2020

- **Open Source Contributor**: Girl Script Winter of Contributing at Girl Script Foundation (Contributed to several Open Source projects, particularly in the domains of Java, Machine Learning using Python, Data Science and AI by developing and collaborating for diverse Open Source projects of technology.) August 2021 - December 2021

- **Computer Science Subject Matter Expert**: CodersArts (Educated learners on Computer Science topics like Data Structures and Algorithms, Java Programming, LeetCode Coding, R Programming, Data Base Management System. Created engaging videos to accelerate the company's growth on YouTube significantly.) December 2022 - March 2023

Achievements and Awards

- **Offer from Mahindra and Mahindra Ltd. for 6 months Data Science Internship for the role of Business Data Analyst, January 2022 - July 2022. Offer from Shell India, for the position of Software Engineer, 2022. (Full time)**
- Certificates of Accomplishment in Code Jam to I/O for Women, Google Hash Code and Google Kick Start Coding Competition, 2021
- Bronze medal in Technological Business Hackathon conducted by AIESEC - October, 2020
- Certificate of Achievement and Top 10th position in 'Google DSC Solution Challenge 2021: Ideathon'
- **Received the Software Engineering Virtual Experience Program Certification from JP Morgan Chase & Co.**
- NASSCOM Certified Artificial Intelligence industry level Certificate
- 9.6 CGPA in first year B.Tech (Engineering) - Academic achievement
- 3 times Gold medalist and Silver medalist in French Olympiad held at International Level
- Ranked highest in CBSE class 12th and class 10th- Photo published in 'The Times of India' for scoring the highest in the state in class 10th CBSE board examinations
- IBM Certified Machine Learning and Data Science using Python achievement
- 5 star Gold badges on Hackerrank in Java, Python, Coding and SQL. 3 Star rating on LeetCode.
- **Accenture Software Developer Program Virtual Internship Certification** (June 2022)
- First prize in Essay Writing Inter School (CBSE) Competition (Aug 2015)
- As the Global Ambassador of Women Tech Network, inspired several women in technology and helped them to drive change with purpose and impact. **(Volunteer)**
- First prize in impromptu speaking competition (July 2016). Additionally, I published blogs and articles on Medium.
- Certificate of accomplishment from Open Source Community for contributing to a project in 'Tech Eden' event. Certificate of Recognition for Open Source Contribution at The GirScript Foundation. (May 2021)

Projects

- **Neural Style Transfer using Deep Learning**: An AI project leveraging Transfer Learning and Neural Networks,that detects features in facial images of living species dataset and classifies images into classes of species.
  Github: https://github.com/SimranAnand1/Neural-Style-Transfer (July 2022 – Oct 2022)
- **Budget Management System and Chart Analyzer (Web Technologies and Data Analytics)**: A responsive full stack web application that helps users track their expenses to keep a record of their monthly budget,income and expenditure and display charts.Uses HTML,CSS,JavaScript,PHP,SQL,DBC,Bootstrap 4,jQuery,MySQL,chart.js.
  Github: https://github.com/SimranAnand1/Budget-Management-and-Chart-Analyzing-System (Apr 2021 - June 2021)
- **'Hack Against Hunger' Web Application (Technological Business Hackathon, AIESEC)**: Developed as a part of Technological Business Hackathon, as an effective solution to the problem of hunger.Full Stack website created using PHP,HTML,CSS,MySQL,Bootstrap,NetBeans IDE and UI. Aims to achieve Sustainable Development Goal 2: End world hunger. **Github:** https://github.com/SimranAnand1/Technological-Business-Hackathon-2020 (Sep 2020 – Dec 2020)
- **Interactive emotionally intelligent AI Chatbot model for Customer Service:**: Incorporates latest models in NLP and OpenCV. A chatbot to detect the tone of speech using multimodal Deep Learning approaches.Uses Sequential Neural Networks and RNN to train the model application and leverages Natural Language Understanding for Question Answer Generation. Detects emotions and moods of person from their facial expressions.
  Github: https://github.com/SimranAnand1/Chatbot-using-Deep-Learning
- **Truth Table Generator Desktop App**: A Java GUI based desktop application created using Swings and JavaFX. Incorporated Boolean Algebra concepts to generate truth table with dynamic functionality.
  Github: https://github.com/SimranAnand1/TruthTableConstructor (June 2020 - Sep 2020)

Research Works and Patents (PUBLICATIONS)

- **Empirical study and comparison of models via NLP and Multiclass Classification for Sentiment Analysis on Covid19 Tweets (Research paper published in International Journal of Modern Developments in Engineering Science (IJMDES))**: Used algorithms like LSTM,SVM,Random Forests,XGBoost,Stochastic Gradient Descent model,Naive Bayes Classifier for Multinomial Text Classification,Logistic Regression,BiLSTM,RNN and Back Propagation Neural Network models. **Project:** https://github.com/SimranAnand1/Empirical-study-and-comparison-of-models-based-on-NLP
  Research Paper Link: https://journal.ijmdes.com/ijmdes/article/view/10 (Feb 2021–Feb 2022)
- **PATENT**: Autism Detection using Artificial Intelligence, NLP and Machine Learning.
- **PATENT**: Intelligently prioritized Road Traffic Density Management System using Deep Learning and Computer Vision
- **Neural Style Transfer to study evolution of species**: A case study as a deep learning research project to study impact of factors on animals, humans and plants with their adaptation and response to stimuli.
  Link: https://github.com/SimranAnand1/Neural-Style-Transfer (Aug 2021 – Present)