

Himanshu Goyal

Analyst, Citi | Full-Stack Developer
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EDUCATION

- **Indian Institute of Technology, Delhi** Delhi, India
Bachelor of Technology in Textile Technology; GPA: 3.20 (8.01/10.0) Aug,13 –July,17
Coursework : Data Structures & Algorithm, Machine Learning, Software Designing, Macro-Economics
- **Deep Learning Specialization** Online
CourseEra by Andrew NG; GPA: 3.80 (9.5/10.0) Oct'19- Jan'20
Coursework : Neural-Network & Deep-Learning, Hyper-Parameter Tuning & Regularization, CNN, Sequence Model
- **Class 12, CBSE (90.60%)** April'12
- **Class 10, U.P. State Board (79.16%)** April'10

WORK EXPERIENCE

- **TwoPaksh.tech, Co-Founder, Tech Head** | Footfall Tracking and Surveillance system Pune [Oct,19-July,20]
 - **IOT surveillance system** : Created a Face-Recognition solution to track and authenticate user entry in any indoor gated community like office, gym etc. The System was deployable in any IOT device making onboarding cost free.
 - System Utilizes a pre-trained **MTCNN + FaceNet** based architecture to output 128-Dimension Face Embeddings and classify various persons for specific community.
 - Implemented **Transfer learning** approach to modify pre-trained **Inception Model of Face-Net** to better perform specifically for the user of gated community and to self-improve accuracy of system over time.
 - System was able to generate crucial analytic like footfall time heatmap, mood of users, user serving time etc. due to the automation of authentication System. This help business take wise decisions.
- **Wobb.in, Technology Head** | Start-up for Influencer Marketing Gurugram, [April,20 - Present]
 - **Brand-Influencer Connection Platform**: Developed a platform for Brand to create adds and Influencer to bid on the advertisement, tracking user engagement rate and generating analytics for brands.
 - **Dashboard for Influencer** : Integrated most social media platform inside application to provide influencer with a powerful tool to track their user engagement and providing crucial analytics
- **Citigroup, Technical Analyst** | Treasury & Trade Solutions Pune,[Aug,18 - Oct'19]
 - **Micro-Services Architecture revamp**: Lead a team of 4 developers for revamping a monolithic site to MicroService & MVC based architecture. Completed the Project in a period of 4-month utilizing extensive agile practises.
 - Revamped the older website's UI to a modern looking and more intuitive web interface. Divided the UI in micro web-component which could be re-used across site reducing the size and loading time of application
 - **SeaShell for Object-Storage**: Developed a S3 API based Object storage solution to reduce load on production boxes by archiving files as objects on to IBM's ObjectStorage.
 - Worked extensively on **Java SpringBoot/MVC** for Microservices API, **Angular** for UI and mongoDB for database
 - Instigated **AWS cloud desktop** adoption by self-learning & guiding others on technical know-how of this new tech
 - Received an overall **rating of 2* & 2*** for last appraisal cycle, awarded only to top 5% of the employee in CITI
- **CitiGroup, Commodities (Analyst)** | CRM tool Commodities Pune, India (Aug,17 - Aug'18)
 - **Realtime Trade Processor**: Developed a MVC Architecture based Spring application for improving the system latency to make it realtime
 - Responsible for on-boarding all exposed rest APIs onto IBM API management tool for security and analytics.
 - **KYC using Blockchain**: Conducted feasibility analysis to leverage block chain to solve the KYC use case in Private Banking industry using other block chain platforms like (Prime chain, BigchainDB, Chain)
- **Internship, SmallDay Services** | Developed Transliteration tool for Vernacular Languages [May-Jul,16]
 - Developed a Tries based Decision-tree model which converted text from one given language to other trained languages
 - Received a **Pre-Placement-Offer & CEO level Award of appreciation** for incredible work & enthusiasm

TECHNICAL PROFICIENCY

- **Technology:** Python, Java, SQL, R, Matlab, NumPy, TensorFlow, Android/IOS app Development
- **Tools:** Jupyter, PyCharm, Git, Eclipse, MySQL, DataFrame, TeamCity, uDeploy, AWS
- **Theoretical:** Machine-Learning, Deep-Learning, Data-Structures, Financial-Market, Application Architecture Designing

AWARDS & RECOGNITION

- **Engineering Excellence, Level-2 Award:** For following Agile Development Model and good coding practices
- **Recipient Citi Applause Award:** For outstanding contribution in development of Commodities CRM tool
- **Recipient Citi Silver Award:** For recognizing individual contribution in various site level initiatives
- **IITD Semester Merit Award :** Ranked in top 7 %, 2014;
- **Summer Under Graduate Research Award (SURA), IITD :** For Research work done in summer,14

PROJECT WORK

- **Data Structures and Algorithms** | Implemented algorithms to solve real world problems
 - Finding the cheapest & shortest series of path in a map for travel-cost optimization b/w two nodes using Dijkstra algo
 - Employed Queuing Theory & Priority Queue for simulating in-store queuing model and optimizing the number of billing-counter in a store against predicted Average waiting time and probability of having to wait for service
- **IIT Delhi B-tech Thesis** | Automated Manual task of Textile Research using image processing[Aug'16 - Dec'16]
 - Automated the process of marking microscopic fibre boundary in a yarn cross-section image via Computer Vision
 - Generated model was able to distinguish different kind of fibres & clearly marked all boundary with an R value of .95
- **Handwritten Digit Recognition** | Open to all Kaggle competition [Nov-Dec,16]
 - Implemented various ML algo like CNN, Random Forest etc. for recognizing the hand written number in an image
 - Stand at an all-time best ranking of 120 among thousands of participant world wide
- **Macroeconomics Paper** | Analysis of Direct Benefit Transfer Scheme in India, Co-Author, Int. Journal, IJETM

ENGAGEMENTS

- **Vocabulary:** Developed a vocabulary building app, which allow user to learn words in order of their importance for given exam. Designed and implemented the end-to-end architecture of the application with UI and backend
- **Engineering Excellence, Level-2 Award :** Awarded with engineering excellence level-2 award for showing skills related to agile development and following good coding practises
- **President, Social Innovation cell, IIT-D::** Developed products for solving social problems with innovation
 - Lead teams of tech volunteer from IIT-Delhi to successfully develop various products for social good like 2048 Games for Blind, Affordable Blood Donation bed, Food-Waste management by in-house Biogas plant etc.
 - Taught a batch of 30 underprivileged students regularly for competitive exams like IIT-JEE
- **Accessible India Campaign:** Redesigned NCERT text-book experiment for braille version of book by HR ministry
- **Microsoft code fun do:** 2-day long Hackathon for developing mobile apps, finished in Top 20 teams for android app
- **Event coordinator, Antarang-16, IITD::** Established and maintained budget for annual departmental fest.

SKILLS AND INTEREST

- **Skills:** CFA level-2, Android/IOS app Developer(PWA)
- **Interests:** Gyming, Playing Badminton, Running, Adventure-Sports, Swimming, App Dev., Open-Source contribution