Himanshu Goyal

Analyst, Citi | ML Software Developer | Data Engineer

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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

- **CFA Level-3 aspirant**   Pune, India
  Cleared Level-1 and Level-2 in first attempt   *Dec'18- Present*
  Coursework : Derivatives & Economics, Financial Reporting Analysis, Portfolio Management, Fixed Income

WORK EXPERIENCE & PROJECTS

- **Citigroup, Technical Analyst** | Treasury & Trade Solutions, Commodities BU   Pune,[Aug,17 - Present]
  - **Recommendation Engine**: Designed & Developed an ML based Recommendation engine to automate the manual entry tasks by upto 75.% Leading **Tech4Ops initiative** to reduce the manual touch points in bank operations.
  - **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.
  - **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.
  - Instigated **AWS cloud desktop** adoption by self-learning & guiding others on technical know-how of this new tech
  - **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)
  - Received an overall **rating of 2* & 2*** for last appraisal cycle, awarded only to top 5% of the employee in CITI
  - Received **Citi Applause Award** & **Citi Silver Award** recognizing individual contributions for various initiatives

- **IIT Delhi B-tech Thesis** | Automated Manual task of Textile Research project   [Aug-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 fibrea & clearly marked all boundary with an R value of .95

- **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

- **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

- **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

- **MacroEconomics Paper** | Analysis of Direct Benefit Transfer Scheme in India, Co-Author, Int. Journal, IJETM

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

Engagements

- **Verboculary**: Developed a vocabulary building app, which allow user to learn words in order of their importance for given exam. Developed the word ranking algorithm by analysing a large database related to given exam resources
- **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

- **Interests**: Gyming, Playing Badminton, Running, Adventure-Sports, Swimming, App Dev., Open-Source contribution