Himanshu Goyal

Analyst CITI | FullStack-Developer | Change It
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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, MacroEconomics

WORK EXPERIENCE

- **CitiGroup, TTS (Software Engineer)** | let See Pune, India (Aug,17 - Present)
  - **Architecture Designer, TTS APAC**: Oversee and guided nearly 150 application for TTS-APAC region for designing system architecture based on newer technology. Worked on Docker migration of 30 application. Conducted training and guided other developers on coding practises like version-Control, one click Deployment, setting CI-CD pipeline etc.
  - **Leaded FIRC Revamp**: Lead a team of 4 developers for revamping a monolithic site to MicroService based architecture, single handedly worked on front end to API development, completed the project in record time of 4 months
  - **Summer'19, TTS Intern Project Lead**: Managed the Intern project for TTS with over 30 candidate, with personally mentoring and guiding two of them.
  - **Summer'19, AWS onboardign and adoption**: Managed the Intern project for TTS with over 30 candidate, with personally mentoring and guiding two of them.
  - **EE committie represntative for TTS-APAC Architecture**: COnducted event on EE
- **CitiGroup, Commodities (Analyst)** | CRM tool Commodities Pune, India (Aug,17 - Present)
  - **Realtime Trade Processor**: Developed a MVC Architecture based 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)

TECHNICAL PROFICENCY

- **Technology**: Python, Java, Angular, TypeScript, SQL, SpringBoot, Ionic, Android/Ios/Windows(PWA Based),
- **Tools**: Git,Eclipse, MySql, Jupyter, TensorFlow, DataFrame, TeamCity, AWS, uDeploy

PROJECT AND INTERNSHIP

- **Handwritten Digit Recognition** | Open to all ML Competition Nov,16
  - Participated in an open to all Kaggle completion for recognizing the hand written number in an image
  - Used various Machine-learning technique like Random forest, ANN, CNN implemented in python and R.
  - Stand at an all-time best ranking of 120 among thousands of participant world wide
- **IIT Delhi B-tech Thesis** | Machine learning model for Image recognition [Aug'16 - Dec'16]]
  - Automated the task of recognizing type of fiber in blended yarn cross-section image using CNN model.
  - Implemented a CNN model in python using Tensor flow, trained the neural network over a dummy data.
  - Using this technique, automated a tedious task of marking fibre boundary manually under a microscope.
  - Model predicted the type of fibre in a given image and marked all boundary with an R value of .95
  - Recognition of all the fibers present in the image with clear boundary detection for area calculation
  - Characterization of the detected fibers based on patterns obtained from initial training data in MATLAB®
- **MacroEconomics Paper**: Analysis of direct Benefit Transfer Scheme in India, Co-Author, International Journal, IJETM (Accepted)
- **Android Apps and games** | Developed many productivity apps Nov,16
  - Developed a networked Multiplayer game with AI for computer player using peer to peer TCP for data transmission
  - Developed an app with its complete frontend and backend for complaint registration in a large community
  - Developed an app for providing course management feature to students teacher in an academic system like IITD
- **Data Structures and Algorithms** | Solved actual problem using algorithm Nov,16
  - Calculated the cheapest shortest series of flight in a given map for traveling b/w two cities using Dijkstra algo
  - Simulated queuing model for supermarkets employing Queuing Theory and Priority Queue for optimizing the number of counters in the store against predicted Average waiting time and probability of having to wait for service

Extra-curricular Activities

- **NCERT Books for Blind**: Re-designed class 6-8 NCERT book's experiments for blind students under GOI's "Accessible India Campaign"
- **Microsoft code fun do**: Participating in 2-day long Hackathon for developing mobile applications, finished in Top 20 teams for android app
  - Organized and lead team of volunteers for working on SIC's project under NSS IITD
  - Regularly taught a batch of 30 underprivileged students for competitive exams like JEE

Leadership Experience

- **Central Team Member, SIC, IIT Delhi:** | Started various social innovation project   [Apr'15 – Apr'16]
  - Collaborated with various NGOs based on 'our skills your money' criterion for working on projects
  - Organized various events for elucidating students about social innovation working with SIC team
- **Event coordinator,Antrang-16, IITD:** | Established and maintained budget for events [Aug'16 - Dec'16]]

Self-Projects

- **Verboculary**: Developed an multi-platform application for user to help remember the English with all Major dictionary support built in

Skills and Interest

- **Skills**: CFA Level-2 cleared, Deep Learning specialization- course Era
- **Interests**: Gyming, Running, Adventure Sports, Swimming, App Development