Shubhangi Upasani

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EDUCATION

- **Georgia Institute of Technology, Atlanta, Georgia, USA**   **Aug 2019 to May 2021**
  Master of Science in Computer Science – Machine Learning Specialization (4/4 GPA)
- **Delhi Technological University, New Delhi, India**   **Aug 2015 to May 2019**
  Bachelor of Technology – Electronics and Communication Engineering (9.21/10 CGPA)

TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++ (Proficient), T-SQL, TypeScript, HTML, CSS, JavaScript (Intermediate)
- **Technologies:** Hadoop, Android Development, Amazon Web Services, Angular, SQL
- **Machine Learning:** CNN's, RNN's, OpenCV, PyTorch, TensorFlow, scikit-learn

WORK EXPERIENCE

Software Development Engineer Intern | Amazon, Seattle USA   **May 2020 to Jul 2020**
- Led end-to-end development of visualizer (a debugging tool) for inventory planning by supply chain optimization team (New York division)
- Implemented audit data prober to help product managers and retail users debug inventory plan computations without need of external developer support
- Minimized plan load times and production failures by nearly 50% by virtue of lazy data loading and losing monolithic structures
- Reduced cost to $10 per month (3-fold reduction) by implementing a serverless architecture

Software Engineer Intern | Western Digital (SanDisk), India   **Jun 2018 to Jul 2018**
- Executed T-SQL programs to minimize dashboard data retrieval times by 5 folds and were subsequently deployed in production
- Formulated analytics for S.M.A.R.T attributes for client memory hard disk drives; results were proposed for further implementation by senior manager
- Delivered solutions for assessing drive's lifetime and endurance utilizing machine learning models; achieved 80% accuracy
- Co-led development of RPG Schematic Generator project; solved 3 of 5 major bugs and accelerated deployment and testing process by a week

Software Development Engineer Intern | Andritz Hydro Pvt. Ltd, India   **Nov 2017 to Jan 2018**
- Developed an online attendance monitoring and evaluation system for increased productivity and reliably accurate time tracking
- Achieved swift internal messaging by employing a chat-server module for entire division made of 18 people; came up with onsite bug fixes for a testing period of 10 days
- Brainstormed and analyzed grounds for future implementation of attendance monitoring; presented system development lifecycle to mentors

Android Development Intern | DTU startup, India   **Jun 2017 to Aug 2017**
- Contributed towards development of a social media app to attain student networking, broadcast updates and live stream lectures
- Led a team of 7 students for developing Photo Editor feature and base template of app
- Tested and deployed app in university for a period of 4 months, accomplished significant user-base

RESEARCH EXPERIENCE

Collaborator | Hays lab, Georgia Tech (Jan 2020 to Present)
- Designing machine learning models for lane-graph inference for lifesaving, self-driving vehicles
- Automating semantic map creation for safe navigation in new environments

Selected Projects:
- Point goal navigation (Facebook Habitat AI) – Imitation learning to predict actions given state of embodied agent with an accuracy of 56%
- Visual Question Answering (VQA) – Employed co-attention models with novel fusion strategy to give equal importance to language and visual priors
- Extracting rock outcrop on Landsat-8 imagery – Semantic segmentation of satellite images to study effects of global warming in Antarctica
- Generating lyrics from Million Songs Dataset through – Used RNN's and clustering to generate genre-specific lyrics with BLEU score of 0.3
- Sentiment detection of twitter text – Utilized SentiCircles to capture contextual information for semantic analysis of tweets; attained 5-6% improvement in accuracy over a well-established baseline

Publication:
- Dr. Akshi Kumar, Dr. Anand Nayyar, Shubhangi Upasani and Arushi Arora, Empirical Study of Soft Clustering Technique for Determining Click Through Rate of Online Advertisements, International Conference of Data Management, Analytics and Innovation (ICDMAI) 2019, Kuala Lumpur, Malaysia

AWARDS AND KEY COURSEWORK

- **Accolades:** WIT Regatta Seattle 2020 scholar — ICDMAI Malaysia 2019 scholarship — Rank 1 in university in CodersBit 2018 — Ranked among top 5% students in undergraduate major — Merit scholarship from FIITJEE, New Delhi
- **Academic coursework:** Machine learning, computer vision, natural language processing, deep learning, artificial intelligence, computational science and engineering algorithms, big data systems and analysis