Gauransh Dhruv Tandon

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC)
MASTER OF SCIENCE IN COMPUTER SCIENCE (CS) | EXPECTED: MAY 2025
BACHELOR OF SCIENCE IN MATH, CS, ECONOMICS | GRADUATED: AUGUST 2020
MINORS IN STATISTICS & PHILOSOPHY
CERTIFICATE: UNDERGRAD RESEARCH

TECHNICAL SKILLS

PROGRAMMING LANGUAGES:
• Python • Java • JavaScript • Bash • C++
• C • R • Haskell • Groovy • Clojure • LaTeX

CLOUD TECHNOLOGIES:
• AWS (RDS/ECS/EC2/Amplify/Lambda)
• GIT • Docker • K8s • Terraform • SNow

DATA(BASE) ENGINEERING TOOLS:
• MySQL • MongoDB • BigQuery • Neo4j
• Spark • Hive • Beam • Kafka • Redis
• Superset • Tableau • DataStudio

CONTINUOUS INTEGRATION TOOLS:
• Jenkins • Sonar • TravisCI • CircleCI

WEB DEVELOPMENT TOOLS:
• Flask • Streamlit • Dash • SwaggerUI
• Node.js • React.js • Next.js • Material UI

DATA SCIENCE LIBRARIES:
• pandas • scikit-learn • nltk • scipy • tf
• keras • ONNX RT • fastText • matplotlib

PRODUCT LIFE CYCLE DEVELOPMENT:
• Patents & Licensing • Cloud Deployment

LEADERSHIP

BOARD DIRECTOR - STRATEGY: CODECERTAIN.AI LLC
CodeCertain.ai intelligently predicts software failures & helps deliver flawless code for you/your team.
The company was founded based on my senior thesis research done at UIUC

- Assist CEO for innovative & strategic developments for Education sector (AB testing on UIUC CS students)
- Assist CTO for architecture & management of technical staff for fast & scalable ML systems on AWS

INVOLVEMENT

SENIOR PROJECT ADVISOR
CS UIUC (2020 - Present)
JUDGE & MENTOR
HackMIT (2020 & 2021)

EXPERIENCE

SERVICENOW | JUNE 2019 - PRESENT | USA
- MACHINE LEARNING (ML) ENGINEER | NOVEMBER 2022 - PRESENT | REMOTE, IL, USA
  - Collaborated with cross-functional BUs like HR, CMDB, ITOM & ITSM to deliver ML Java solutions utilizing platform capabilities, handling DevOPS QA & technical customer issues
  - Redesigned ITOM Metric Intelligence Anomaly-Detection Capability & decreased false-positives by 67 % for top 10 alerts using multivariate DL models in Java & Python
  - Developed TrustBuilder - for assessment of LLM inputs & outputs to achieve 75 % accuracy in toxicity detection in collaboration with AI & Governance Lab in Python
  - Tech Led: ATG ML's FIPS Compliance initiative fixing 15+ existing security vulnerabilities
  - Hired & Mentored: Conducted technical interviews & mentored 2 new engineering hires
- ASSOCIATE ML ENGINEER | OCTOBER 2020 - OCTOBER 2022 | REMOTE, USA
  - Founding developer for server-side ML training architecture in Python using Beam, Sklearn, TF & ONNX, to improve ML solutions training accuracy by 26% & latency by 37%
  - Integrated AI Search & Lang Detection for criticality detection HR Workflow in Java & JS
  - Took an initiative to set up security-check pipelines & get licensing approvals for Python
- ASSOCIATE DATA SCIENTIST COOP | SEPTEMBER 2019 - AUGUST 2020 | REMOTE, USA
  - Worked with Fortune-500 customers to get new Data-Insights features into production
  - Prototyped De-Duplication for Configuration-Management DataBase(CMDB) which learned the best way to find similar rows in CMDB to decrease duplication of 150million+
- SOFTWARE ENGINEERING INTERN - PLATFORM | JUNE 2019 - AUGUST 2019 | CA, USA
  - Prototyped Java-Commit-Risk-DevOps Product to automate code approval process during software development life cycle to decrease production time by 40 %
  - Improved accuracy to predict nightly test fails from SN data using ML-DL models to 90%

GRAYBAR | DATA ENGINEERING ANALYST INTERN | FEBRUARY 2019 - MAY 2019 | IL, USA
- Architected real-time data pipelines using Kafka & BigQuery for analytics on DataStudio
- Built backend SQL-API Connection & API Endpoints with node.js,express & mongoDB

AARP | SOFTWARE ENGINEERING INTERN | SEPTEMBER 2018 - NOVEMBER 2018 | IL, USA
- Debugged UI & Database bugs in Version 1.0 Chatbot & showcased to CEO
- Implemented Intent Detection using seq2seq for v1.1 to classify over a billion chat intents

MAKEMYTRIP | DATA ENGINEERING INTERN | MAY 2018 - JULY 2018 | HARYANA, INDIA
- Developed a real-time Alerting & Error Monitoring System for the Data Platform
- Devised Spark-based Lifetime Value Model for 25 million users, boosting 30% retention

COGNITENSOR | DATA SCIENCE INTERN | MAY 2018 - JULY 2018 | DELHI, INDIA
- Orchestrated an AI revenue generating product "CogniText360" for Indian Media Houses
- Summarized 50,000+ news articles using seq2seq, LSTM, RNN with ROUGE-1-score:0.4

MATHEMATICS DEPARTMENT, UIUC | MENTOR | JANUARY 2018 - MAY 2018| IL, USA
- Provided helpful feedback for grading 10+ students pursuing Calculus III
- Maintained progress reports providing guidance to resolve academic problems

RESEARCH

COMPUTERS & EDUCATION @ CS RESEARCH: UNIVERSITY OF ILLINOIS
SENIOR THESIS: UNDERGRAD RESEARCHER | NOVEMBER 2019 - AUGUST 2020| IL, USA
- Worked on "Automated-Code-Risk-Model for CS-242 Grading" – Advisor: Prof. Woodley
- Designed source-code-analyzing techniques for code-risk-scores as part of auto-grading

UNIVERSITY OF CAMBRIDGE COMPUTER LABORATORY
VISITING: UNDERGRAD RESEARCHER | JULY 2018 - SEPTEMBER 2018 | CAMBRIDGESHIRE, UK
- Worked on "Predicting Depression from Alcoholism using ML Methods" under Dr. Dimitri
- Presented the poster at University of Illinois ACM Symposium '18 🔗

UNIVERSITY OF ILLINOIS EXPERIMENTAL MUSIC STUDIO
LEARNING COMMUNITY: UNDERGRAD RESEARCHER | JANUARY 2018 - MAY 2018 | IL, USA
- Worked on "Exploring DISSCO: A Guide For Digital Sound Composition" under Prof. Tipei
- Presented the poster at UIUC Undergrad-Research-Symposium '18 🔗