CHITRANSH LODHA

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EDUCATION

UCLA ANDERSON SCHOOL OF MANAGEMENT   Los Angeles, CA
Master of Science in Business Analytics (MSBA) | F-1 STEM OPT   Sep 2023 - Expected, Dec 2024
- Prescriptive Modeling, Competitive Analytics, Optimization in Python, Operations Analytics, Customer Analytics
- Awarded UCLA Anderson Merit Fellowship, Director of Admissions – Anderson Entrepreneurship Association

NATIONAL INSTITUTE OF TECHNOLOGY SURATHKAL   Karnataka, India
Bachelor of Technology in Electrical and Electronics Engineering | GPA: 9.61/10.0   Jun 2016 – May 2020
- Machine Learning, Linear Algebra, Neural Networks, Probability Theory, Engineering Mathematics
- Thesis: Implemented Evolutionary Algorithms for Optimizing Off-Grid PV Systems with varying solar radiation
- Four-time recipient of the Institute Merit Scholarship Award (2016-2020) for consistently ranking in Top 3 of the class

TECHNICAL SKILLS

Languages: SQL, R, Python (NumPy, Pandas, Matplotlib, Keras, OpenCV), MATLAB, C, HTML
Software: Excel, Hadoop, Jira, AWS, Snowflake, Tableau, Power BI, PowerPoint, LaTeX
Analysis and Modeling: Hypothesis testing, A/B Testing, Statistical Regression, Computer Vision, Time Series Analysis

PROFESSIONAL EXPERIENCE

ZS ASSOCIATES   Pune, India
Decision Analytics Associate – Media Analytics and Business Intelligence Team   Jan 2022 – Jul 2023
- Delivered projects with **cumulative worth $1.5M** including **50+ ad-hoc analyses**, **100+ reports**, and engaging Power BI dashboards with **100% accuracy** within strict timelines to track performance of newly launched drugs for a **$50B+ US-based** pharmaceutical conglomerate while delivering investment and strategy insights to client leadership
- Performed hypothesis testing, leveraged descriptive and prescriptive analytical techniques in R and SQL to research and drive performance of **10+ patient support** programs of a global $2B+ immunology drug
- Proposed control measures to minimize patient attrition post loss of exclusivity of a $20B+ global immunology drug

HINDUSTAN PETROLEUM (India's leading Fortune 500 Energy company)   Mysuru, India
Shift Operations Officer at MHMB LPG Pipeline   Sep 2020 – Dec 2021
- Led a team of **50+ workers** across **seven locations** enabling pipeline transfer of **$1M+** worth of LPG daily, ensuring 100% adherence to quality standards and zero safety incidents
- Designed IoT-based remote monitoring systems to **increase battery bank life** by **~50%**, leading to **savings** of **$50k** and a pipeline alarm response system enabling **70% reduced alarm reaction time**
- Facilitated **50+ pipeline inspections** and joint maintenance activities, resulting in **100% uptime of critical equipment** like SCADA, RTU, PLC, telecom panels, **200+ transmitters, and gauges** as instrumentation in charge

GOVT. OF INDIA, District Administration – Bokaro Steel City,   Bokaro, India
Covid-19 Warrior, Project: SARAL – Safe Arrival and Accommodation of Labor   May 2020 – Jul 2020
- Engineered and deployed multiple **data-driven IT solutions** pro-bono to address Covid-19 associated challenges in Bokaro District (2.5M+ population, 2.8k sq km area)
- IT Solutions included: **Real-time geospatial dashboard** for surveillance of 30k+ migrants; **Contact tracing models** in ArcGIS to contain spread; **Webapp** to manage home quarantine of 20k+ migrants across 600+ villages and manage inventory of 300+ quarantine centers; **Job portal** for rehabilitation of 15k+ workers locally

GOVT. OF INDIA, NITI Aayog (Formerly Planning Commission)   New Delhi, India
Intern – Science and Technology Vertical   May 2019 – Jul 2019
- Developed a comprehensive white paper with proof of concept for a **blockchain-enabled decentralized energy marketplace** in India to promote renewable energy and address power sector challenges
- Conducted independent studies on **mitigating Brain drain, technology commercialization strategies**, and **boosting FDI** in the R&D sector, published in NITI Aayog policy reports

DATA ANALYTICS PROJECT

Computer Vision Project, Indian Institute of Technology Delhi   May 2018 – Jul 2018
- Developed algorithm for **localizing text** in natural-scene and metallic surface backgrounds with **95% test accuracy** employing **image processing techniques** using **TensorFlow** and **OpenCV** in Python
- Designed an interactive GUI in PyQt5 and tested algorithm compatibility with **uneven lighting, varying fonts, and challenging backgrounds**

ADDITIONAL

- Nominated for sponsored Global Exchange Program in Russia on multicultural education by AIESEC (May – Jul 2017)
- Memberships (at NIT Surathkal) - Entrepreneurship Cell, Indian Society of Technical Education, Placement Coordinator
- Trained in playing Synthesizer; Received Certified Abacus and Calligraphy training