Bhuvan Kumar Chennoju

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EDUCATION AND HONORS

University of Missouri - Kansas City, School of Computing and Engineering
Masters in Computer science (Data Science Emphasis)
- Cumulative GPA: 3.6/4.0
- Relevant Coursework: Statistical Learning, Machine Learning, Deep Learning, Software Development, Cloud computing.
- Scholarship from National Science Foundation Project ($4750 over four semesters)

Kansas City, MO
Exp. May 2023

National Institute of Technology, Hamirpur
Bachelor of Technology in Mechanical Engineering
- Cumulative GPA: 7.95/10.0 under top 10%
- Undergraduate Merit Scholarship (sum of $4500 awarded for the top 10% of the program for eight semesters)

Hamirpur, IN
May 2018

PROFESSIONAL EXPERIENCE

Computational Intelligence and Bio-Identification Technologies Laboratory
Graduate Assistant
- Developed a Resnet-based Human Identification model (finger vein patterns images) with an Accuracy of 97 ± 1%.
- Coded with Pytorch and Data Parallelized over NVIDIA A6000 Linux clusters for better run time and code optimization.
- 120 and 360 class datasets, optimized the parameters for the arc face model.
- Quarterly scheduling and Presenting results to project sponsors and writing a work summary with documentation.

Kansas City, MO
August 2022 - Present

T-Mobile USA
Software Developer Intern, Advanced and Emerging Technologies Division
- Developed a Smart Digital Twin application for the oculus device with an NLP intent recognizer with an accuracy of 94 ± 1%.
- Worked with a smart wearable device called "Mudra Band" to develop a hand gesture pyTorch based Sequential classifier based on the nerve signals with a prediction accuracy of 97% with data collected from 50 people. Validated its Integration with the App to verify vendor claims.
- As part of a team of interns, developed a 10-class image classifier to deploy on Modzy cloud to test edge computing capabilities.
- Presented results to VP of division & unit and wrote requested executive summary detailing value proposition and strategy to demonstrate senior leadership.

Overland Park, KS
May 2022 – August 2022

Indian Institute of Technology, Bombay
Project Research Assistant
- Developed a Regressor to predict the fuel droplet size and distribution with K-means clustering in a rocket engine, which saved a total of 2,000$ per engine in testing, and experimentation.
- Utilized MATLAB, python, and High- performance computing Linux cluster to discover five new combustion patterns in micro combustors. Image processing and Signal processing are implemented.
- Publication: Chennoju Bhuvan, K Hiranandani, et al., Novel flame dynamics of a rich mixture of premixed propane-air in a planar micro combustor" *Physics of Fluids*, Vol. 32, 103604 (2020). doi.org/10.1063/5.0020518

Mumbai, IN
May 2019 – September 2020

SKILLS

- **Programming Languages:** Python, R, Java, C, JavaScript, HTML, CSS, SQL
- **Big Data & Machine Learning:** Spark, MongoDB, Firebase, Python (eg. scikit-learn, NumPy, pandas, matplotlib), PostgreSQL
- **Data Science & Miscellaneous Frameworks:** Regression, Classification, Clustering, Decision Trees, NLP, Random Forests, Transformers, CNNs, RNNs, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Hypothesis testing, Optimization, Forecasting, Predictive Modeling, APIs, Excel, Git, Angular, React, Flask **Reporting Tools:** Tableau, MS Excel

PROJECTS AND LEADERSHIP

Teaching Assistant
Deep Learning and Introduction to Statistical Learning (University of Missouri – Kansas City)
- Collaborated with the instructor to lead recitations, grade coursework, and answer 90+ students' questions.

Kansas City, MO
January 2022 – Present

Master's Research Thesis
University of Missouri- Kansas City
- Developing peer2peer privacy-preserving federated learning model with PyTorch and a user-based web interface.

Kansas City, MO
May 2022 –Present

Kaggle Master - Notebooks
Kaggle Online Data Science Platform
- Published 10 data science projects with open datasets to the Kaggles notebooks category as an open contribution.

Remote
January 2020 – Present

Data Scientist Intern
Spark Foundation Startup
- Collaborated with an intern team of 10 to work on various supervised machine learning modeling and data visualizations

Hyderabad, IN
October 2020 – December 2020

ACHIEVEMENTS

- Won **1st & 3rd** places in **Hackathons** organized for Fall 21& 22.
- Kaggle Notebook Master with the best rank of **109** out of nearly **0.2 million** Kagglers.