

Bhuvan Kumar Chennouju

bhuvankumarchennouju@gmail.com | 816-377-7628 | 800 E 41st street, Kansas City, MO – 64110 | [LinkedIn](#) | [Kaggle](#) | [Tableau](#)

EDUCATION AND HONORS

University of Missouri - Kansas City, School of Computing and Engineering
Master's in Computer science (Data Science Emphasis) Kansas City, MO
Exp. May 2023

- Cumulative GPA: 3.6/4.0
- Relevant Coursework: Statistical Learning, Machine Learning, Deep Learning, Software Development, Cloud computing.
- Scholarship from National Science Foundation Project (\$3500 over the span of 3 semesters)

National Institute of Technology, Hamirpur
Bachelor of Technology in Mechanical Engineering Hamirpur , IN
May 2018

- 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)

PROFESSIONAL EXPERIENCE

Computational Intelligence and Bio-Identification Technologies Laboratory Kansas City, MO
Graduate Assistant August 2022 - Present

- Utilizing PyTorch and high-performance computing Linux cluster to develop a Human ID model with finger vein patterns.
- Used the 120 and 360 class data sets to compute an angular distance as a feature extractor with 127 custom augmentations to train a rank 5 model. Arcface and Resnet models are utilizing develop a scalable deep-learning model.
- Quarterly scheduling and Presenting results to project sponsors and writing a work summary with documentation.

T-Mobile USA Overland Park, KS
Software Developer Intern, Advanced and Emerging Technologies Division May 2022 – August 2022

- Developed a Smart Digital Twin application for the oculus device with NLP-based intent recognizer with an accuracy of 95%.
- Worked with a smart wearable device called “Mudra Band” to develop a hand gesture DL classifier based on the nerve signals with a prediction accuracy of 97% with data collected from 50 people. Validated its Integration with 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 & team and wrote requested executive summary detailing value proposition and strategy to present senior leadership.

Indian Institute of Technology, Bombay Mumbai, IN
Project Research Assistant May 2019 – September 2020

- 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 5 new combustion patterns in micro combustors. Image processing and Signal processing are implemented.
- Publication: Chennouju 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

SKILLS

- **Programming Languages**: Python, R, Java, C, JavaScript, HTML, CSS, SQL, Linux, Base SAS
- **Big Data & Machine Learning**: Spark, MongoDB, Firebase, Python (eg. scikit-learn, NumPy, pandas, matplotlib), SQLite
- **Data Science & Miscellaneous Frameworks**: Regression, Classification, Clustering, Decision Trees, NLP, Random Forests, Transformers, CNNs, RNNs, A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, Optimization, Forecasting, Predictive Modeling, large datasets, OOP, OOD, APIs, Excel, Git, Angular, React, Flask
- **Reporting Tools**: Tableau, Power BI, MS Excel
- **Cloud Fundamentals**: AWS SageMaker, AWS Lambda, Azure ML studio

PROJECTS AND LEADERSHIP

Teaching Assistant **Kaggle Portfolio**
Deep Learning and Introduction to Statistical Learning (University of Missouri – Kansas City) Kansas City, MO
January 2022 – Present

- Collaborated with the instructor to lead recitations, grade coursework, and answer 90+ students’ questions.

Master’s Research Thesis Kansas City, MO
University of Missouri- Kansas City May 2022 –Present

- Developing peer2peer privacy-preserving federated learning model with PyTorch and a user-based web interface.

Data Scientist Intern Hyderabad, IN
Spark Foundation Startup October 2020 – December 2020

- Collaborated with an intern team of 10 to work on various supervised machine learning modeling, and data visualizations

ACHIEVEMENTS

- Won **1st & 3rd** places in **Hackathons** organized for Fall 21& 22.
- Place in the 15% of the leaderboard in an NLP Kaggle competition on Jigsaw toxic comment severity rating
- Kaggle Notebook Master with the best rank of **109** out of nearly **0.2 million** Kagglers.