Akhilesh Prashant Patil

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EDUCATION

Master of Science in Data Science (Current Master's)   *2023*
University of Colorado Boulder, Boulder, CO; GPA - 3.950/4

Bachelor of Technology, Computer Science and Engineering   *2019*
Ramaiah Institute of Technology, Bengaluru, India; GPA - 9.1/10

EXPERIENCE

Software Engineering Intern, Samsung Research America - Bixby Lab, *Mountain View, California*   *05/23-Present*
- Audited current methodologies to solve user-based recommendations for Bixby users of up to 6 months of historic data.
- Explored ways to solve the cold start problem for natural language utterance recommendations for 10 Mn+ users.
- Identified ways to develop popularity-based recommendations to give the top 15 recommendations to users.

Data Scientist - Advanced Analytics, I.B.M. India Pvt. Ltd, *Bengaluru, India*   *06/19-07/22*
- Led deployment of E.T.L. pipeline on IBM Cloud, processing 10+ daily client file updates.
- Directed code development for an audio analytics dashboard serving telecom customers to visualize 22 K.P.Is in one go.
- Coordinated with Business Analysts to manage 50+ K.P.Is for a Sustainability Development client.
- Utilized Explainable A.I. to identify the top 6 credit risk prediction features for banking clients.
- Managed geospatial data pipeline enabling vessel movement analysis for shipping companies.
- Developed a data-rich dashboard aiding clinicians in drug study efficacy and safety analysis.

AI Research Intern, Robert Bosch Engineering and Business Solutions, *Bengaluru, India*   *01/19-05/19*
- Explored and compiled research on an edge-based solution for audio emotion classification by analyzing the human tone.

TECHNICAL SKILLS

- *Languages*: Python, SQL, R Programming, Java, C/C++, MongoDB.
- *Machine Learning/Deep Learning*: Pandas, NumPy, Keras, TensorFlow, Plotly, Flask, Speech Recognition, Natural Language Processing, Time-Series Analysis, Statistical Modeling, Long-Short Term Memory (LSTM), Recurrent Neural Network (R.N.N.'s).
- *Industry Knowledge*: I.B.M Cloud, A.W.S Cloud, Data Visualization (Power B.I), Data Pipeline development, Git/GitHub, Database Management Systems, Data Structures and Algorithms, Docker and Kubernetes, Machine Learning Operations (M.L Ops), DevOps.

PUBLICATIONS

- Simulating the Concept of Self-Driving Cars Using Deep-Q Learning.
  - *doi.org/10.1007/978-981-15-7106-0 32*.
- A Semiautomated Question Paper Builder Using Long Short-Term Memory Neural Networks.
  - *doi.org/10.1007/978.981-13-5953-8 29.*
- An Effective Natural Language Understanding Model Using Deep Learning and PyDial Toolkit.
  - *doi.org/10.1109/ICCIC.2017.852.*
- Effective Deep Learning Model to Predict Student Grade Point Averages.
  - *doi.org/10.1109/ICCIC.2017.8524317.*
- Unsupervised Techniques to Develop a Social Networking Platform in an Educational Institute.
  - *doi.org/10.1109/T4E.2019.0005.*

ACHIEVEMENTS

- Recognized as the best graduate hire at I.B.M. for the first half of 2020 for contributing to client success.
- Awarded the Manager's Choice Award at I.B.M for successfully deploying a dashboard within a quick turnaround time.
- Part of a 6-member team from I.B.M. at an inter-company hackathon at S.B.I. General Insurance in Mumbai.
- Awarded the best all-around outgoing student during graduation from undergraduate studies at Ramaiah Insti-tute of Technology.