

Pushpankar Kumar

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EXPERIENCE

- **ML Engineer II** Bengaluru
Dailyhunt Sept 2019 - June 2021
 - **Spam classifier:** Built end-to-end spam classifier using XGBoost and deployed on distributed servers for high throughput and availability. Scaled the architecture to manage 300K+ NSFW images and videos and text spam per day.
 - **Recommendation model:** Developed friend recommendation model using social and interest graphs.
 - **Internal tools:** Reduced data annotation and visualization time by 70% by building custom data annotation and visualization tools.
- **Data Scientist** Bengaluru
Edge Networks May 2018 - Sept 2019
 - **Ranking model:** Built a pairwise ranking model to rank resumes for job descriptions and improved NDCG ranking score by 16%.
 - **Knowledge graph:** Created a knowledge graph of 30K skills and 8k titles by parsing resumes and improved the ranking model by 3%. Knowledge graph also helped in building other tools like job description creator and analytic tools.
 - **Data warehouse:** Designed schema for resume data warehouse and set up ETL pipeline.
- **Data Scientist** Gurugram
ParallelDots June 2017 - May 2018
 - **Multi-task learning:** Developed a multi-task learning algorithm with a self-attention mechanism to classify emotion, intent, and sentiment. Achieved 87% accuracy for ternary sentiment classification.
 - **Transfer learning:** Improved accuracy of sentiment, emotion, and intent classification by up to 8% using transfer learning.
 - **Aspect based sentiment classifier:** Implemented an aspect-based sentiment classifier using LSTM and self-attention and achieved state-of-the-art level accuracy.

PROJECTS

- **React native app:** Developed spaced repetition app for improving vocabulary using React-native, SQLite, Clojure, and MongoDB. Deployed the app on AWS EC2 instance.
- **Group study webapp:** Built group study platform with personal and group chat feature using elixir, javascript, html, and AWS RDS. Deployed the app on AWS elastic beanstalk using docker container.
- **Distributed System:** Implemented MapReduce framework and RAFT consensus algorithm in Golang.
- **Lock-screen app:** Developed a highly customizable native android lock screen app.

EDUCATION

- **National Institute of Technology, Srinagar** Srinagar, India
Bachelor of Technology - Material Science; GPA: 7.2 July 2013 - June 2017

SKILLS

- **Proficient:** Algorithms, Data Structure, Machine learning, Deep learning, Natural Language Processing
Python, Pytorch, Sklearn, RESTful and TCP web services, React
- **Skilled:** Statistics, Probability, Computer Vision, Functional Programming, Linear Algebra, Databases
TensorFlow, Clojure, Java, Javascript, SQL, NoSQL