

Akshay Gupta

akshaykg42.github.io | akshaykg42[at]gmail

EXPERIENCE

PLAID | SOFTWARE ENGINEER

Risk Engineering | Jan 2022 – Current | Remote (Seattle)

- Helping grow Plaid's abuse team into the new risk engineering team (3 to 8 engineers), enabling effortless integration with our services and reaching full coverage across Plaid's products and onboarding flow.
- Leading multiple 6-month projects to integrate our anti-abuse service with our new suite of payments products as well as build out review queue infrastructure.

Abuse Engineering | Feb 2021 – Dec 2021 | Remote (Austin → Seattle)

- Worked on reducing fraud and abuse via credential stuffing attacks and microdeposit fraud by shipping a reCAPTCHA Enterprise v3 integration for Plaid and adding new features to existing anti-abuse infra.

Independent Data Access | Summer 2020 | Remote (Austin)

- Saved hundreds of engineering hours through extensive automation by building an interactive CLI in Go that allows users to securely connect to and interact with android devices on a remote cluster through API endpoints on a Controller running on the cluster, the android debug bridge (adb) and screen mirroring.

FACEBOOK | SOFTWARE ENGINEERING INTERN

Summer 2019 | Seattle

- Built an end-to-end system for measuring content level hate speech prevalence on third party data to increase market intelligence, using multiple Dataswarm Pipelines in Python and a bot in Hack, making use of Hive and running internal NLP classifiers on third party data.

LEGITRADE LLC | OWNER

August 2016 - Present | Austin → Seattle

- Profitable business aiding recycling by finding solutions for over 5,000 tons of paper destined for landfills.
- I handle all aspects of setup, sales, documentation, accounting and taxation, and am financially independent!

RESEARCH

[ACL 2022] ASPECTNEWS: ASPECT-ORIENTED SUMMARIZATION OF NEWS DOCUMENTS

Ojas Ahuja, Jiacheng Xu, Akshay Gupta, Kevin Horecka, Greg Durrett

- Generic summaries try to cover an entire document and query-based summaries try to answer document-specific questions. But real users' needs often fall in between these extremes and correspond to aspects, or high-level topics.
- In this paper, we annotate data across two domains of articles, earthquakes and fraud investigations, in our new AspectNews dataset, where each article is annotated with two distinct summaries focusing on different aspects per domain.
- We evaluate how well existing techniques can generalize to these domains without seeing in-domain training data. We compare several training schemes that differ in how strongly keywords are used and how oracle summaries are extracted.
- Our evaluation shows that our final approach yields (a) focused summaries, better than those from a generic summarization system or from keyword matching; (b) a system sensitive to the choice of keywords.

EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN

MS, COMPUTER SCIENCE

Aug 2019 - Oct 2020 | Austin, TX

Dropped Out 🙋

BS, COMPUTER SCIENCE

Aug 2016 - Dec 2020 | Austin, TX

Turing Scholar, Business Minor

COURSEWORK

GRADUATE

Algorithms

Natural Language Processing

Database Systems

Cybersecurity Law & Policy

Combinatorics & Graph Theory

UNDERGRADUATE

Concurrency

Operating Systems

Artificial Intelligence

Neural Networks

Information Retrieval & Search

Competitive Programming

SKILLS

PROGRAMMING

Proficient:

Go • Python • SQL

Familiar:

Java • C++ • TypeScript

LIBRARIES/Frameworks

gRPC • Pandas • HuggingFace

INTERESTS

TECHNICAL

Risk & Fraud • Security • ML • Backend Engineering • Math

NON TECHNICAL

Puzzles • Food • Hiking • Cats