**venkatasaikumarerla** | New York, NY | +1-203-627-5831 | venkatasaikumarerla@gmail.com | LinkedIn: https://www.linkedin.com/in/venkata-sai-kumar-erla-327155263/

**SUMMARY**

Graduate student focused on data analytics & ML for healthcare. Strong in SQL and Python (pandas, numpy).

**SKILLS**

Python, SQL, Pandas, NumPy, scikit-learn, PySpark

**RELEVANT PROJECTS**

**Sparkify Churn Prediction (PySpark)**

* Processed 12M events in PySpark; engineered session features; trained GBM/LogReg (+9% AUC).
* Productionized ETL & data quality checks; delivered churn cohort dashboards.

**Clinical Trial Matcher (NLP)**

* Built NLP pipeline (spaCy + regex) to normalize trial criteria; improved match precision by 18%.
* Parsed 5k+ trial records; engineered keyword/semantic features; exported ranked matches.

**EMG Signal Analysis**

* Filtered EMG (band-pass/notch); extracted RMS/MAV/ZCR for gesture classification.
* Automated visualization & reports; improved feature stability across sessions by 11%.
* Wrote modular Python with type hints & tests; reduced pipeline bugs.
* Built SQL joins/window functions; cut report runtime by 35%.

**EDUCATION**

**NYU – M.S.** — 2024–2026

Keywords: #, -, 000, 0005, 04, 1, 120, 1250, 12985, 18, 1995, 2026, 30, 305, 401k, 5, 7, 80, ab1, abilities, ability, about, accepted, access, accidents, according, accurate, act, active, activities, actual, add, addition, additionally, address, adhd, administered, administration, advanced, advancedmd, advised, affairs, age, aids, aim, air, alcohol, alert, all, alongside, also, analyst, analytics, analyze, ancillary, announcement, another, answer, anxiety, any, applicable, applicants, application, applications, apply, appropriate, are, armed, array, arthritis, ask, asked, assistance, asthma, atlassian, attach, attention, austin, authorities, authorized, autism, autofill, autoimmune, automating, awarded, baby, bachelor, backgrounds, badge, based, basic, basis, bbb, be, because, become, been, beginnin