## Technical Contribution Report (Final; Portfolio)

## **Project Information**

**URL** 

Original: <a href="https://github.com/joke2k/faker">https://github.com/joke2k/faker</a>

Fork: <a href="https://github.com/Nikomixo/faker">https://github.com/Nikomixo/faker</a>

License

MIT License

https://github.com/joke2k/faker/blob/master/LICENSE.txt

## **Description**

Faker is a Python library that artificially generates fake data for testing purposes. Using providers, it can generate realistic, region-specific data, such as a valid Australian address, or valid European phone numbers.

## Summary of Work Product

I added several missing identification numbers to certain locale SSN providers, along with valid tests for each of them.

Here's an example of a ssn provider for Austria that I implemented.

```
https://learn.microsoft.com/en-us/microsoft-365/compliance/sit-defn-austria-social-security-number?view=o365-worldwide
10 digits:
   - three digits that correspond to a serial number
    - one check digit
    - six digits that correspond to the birth month (DDMMYY)
:return: a random Austrian SSN
age = datetime.timedelta(days=self.generator.random.randrange(0, 100))
birthday = datetime.date.today() - age
birthdate = "%02d%02d%s" % (
   birthday.day,
   birthday.month,
   str(birthday.year)[-2:],
serial = self.bothify("###")
check = str(calculate_luhn(float(serial + birthdate)))
ssn = serial + check + birthdate
return ssn
```

And the corresponding tests for this provider.

```
class TestDeAT(unittest.TestCase):
    def setUp(self):
        self.fake = Faker("de_AT")
        Faker.seed(0)

def test_ssn(self):
        for _ in range(100):
            assert re.search(r"^\d{4}(0[1-9]|[1-2][0-9]|3[0-1])(0[1-9]|1[0-2])\d{2}$", self.fake.ssn())

def test_tin(self):
        for _ in range(100):
            assert re.search(r'^\d{2}-\d{3}/\d{4}\$', self.fake.tin())

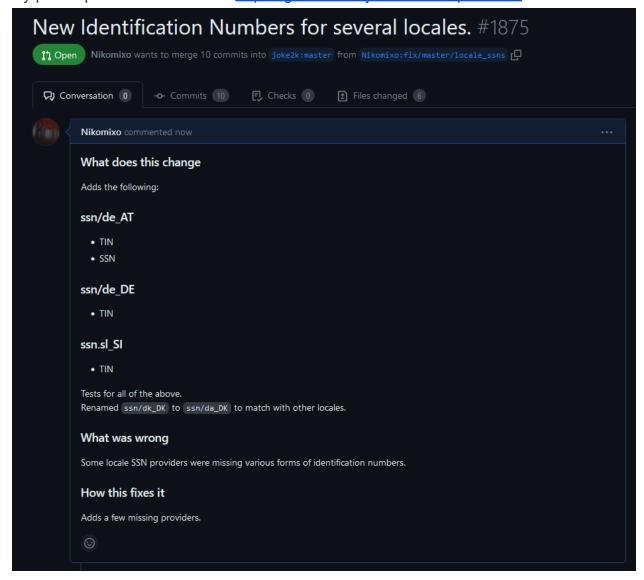
def test_vat_id(self):
        for _ in range(100):
            assert re.search(r"^ATU\d{8}\$", self.fake.vat_id())
```

The test suite results:

```
py39: OK (63.77=setup[26.73]+cmd[15.19,15.89,5.95] seconds) congratulations :) (63.95 seconds)
```

I also implemented a few others, which is documented in my pull request below.

My pull request is located here: <a href="https://github.com/joke2k/faker/pull/1875">https://github.com/joke2k/faker/pull/1875</a>



Here are the diff files of all the changes:

https://github.com/joke2k/faker/pull/1875/files